

EXHIBIT A

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FILED

JUN 11 2021

TIMOTHY W. FITZGERALD
SPOKANE COUNTY CLERK

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
IN AND FOR SPOKANE COUNTY

VAUGHN L. BRESHEARE and
JOHN DOE 27,

Plaintiffs,

v.

GILEAD SCIENCES, INC.,

Defendant.

Case No.

21201586-32
SUMMONS (20 days)

TO THE DEFENDANT:

A lawsuit has been started against you in the above-entitled court by Plaintiffs. Plaintiffs' claims are stated in the written complaint, a copy of which is served upon you with this summons.

In order to defend against this lawsuit, you must respond to the complaint by stating your defense in writing and serve a copy upon the undersigned attorney for the plaintiffs within 20 days after the service of this summons, excluding the day of service, or a default judgment may be entered against you without notice. A default judgment is one where plaintiffs are entitled to what they ask for because you have not responded. If you serve a notice of appearance on the

SUMMONS - 1

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1 undersigned attorney you are entitled to notice before a default judgment may be entered.

2 You may demand that plaintiffs file this lawsuit with the court. If you do so, the demand
3 must be in writing and must be served upon the person signing this summons. Within fourteen
4 (14) days after you serve the demand, plaintiffs must file this lawsuit with the court, or the
5 service on you of this Summons and Complaint will be void.

6 If you wish to seek the advice of an attorney in this matter, you should do so promptly so
7 that your written response, if any, may be served on time.

8 This summons is issued pursuant to Rule 4 of the Superior Court Civil Rules of the State
9 of Washington.

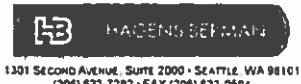
10 DATED: June 11, 2021

11 HAGENS BERMAN SOBOL SHAPIRO LLP
12 Attorneys for Plaintiffs

13 By: 
14 Steve W. Berman, WSBA #12536

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SUMMONS - 2

010759-11/1560908 VI



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IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON IN AND FOR THE COUNTY OF
SPOKANE

VAUGHN L BRESHEARE AND JOHN DOE 27

No

Plaintiff(s),

Vs.

AFFIDAVIT PURSUANT TO
GR 17(a) (2)

GILEAD SCIENCES INC.,

Defendant(s).

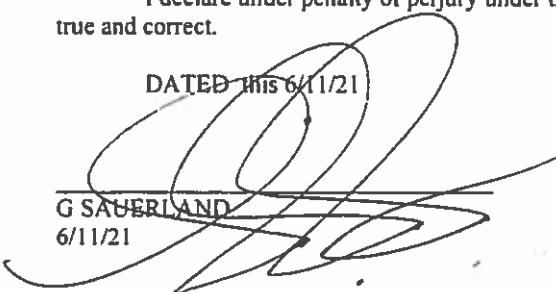
G SAUERLAND, declares and states:

1. I am employed with EASTERN WASHINGTON ATTORNEY SERVICES INC.,, and submit this declaration pursuant to GR 17 (a) (2) as recipient of "SUMMONS" received via email at gsauerland@comcast.net for filing with the Court in this matter.

2. I have examined the document. The "SUMMONS" consists of THREE (03) page(s), including the signature page, and this Declaration page. It is completed and legible.

I declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

DATED this 6/11/21


G SAUERLAND
6/11/21

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FILED

JUN 11 2021

TIMOTHY W. FITZGERALD
SPOKANE COUNTY CLERK

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
IN AND FOR SPOKANE COUNTY

21201586-32

Case No.

COMPLAINT FOR DAMAGES

VAUGHN L. BRESHEARE and
JOHN DOE 27,

Plaintiffs,

v.

GILEAD SCIENCES, INC.,

Defendant.

COMPLAINT FOR DAMAGES

010759-11/1560782 V1

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COMPLAINT FOR DAMAGES – i

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COMPLAINT FOR DAMAGES – ii

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1 Plaintiffs bring this civil action for damages against Defendant Gilead Sciences, Inc.
 2 ("Gilead" or "Defendant"). Based on the investigation of counsel, Plaintiffs allege on information
 3 and belief as follows:

4 **I. NATURE OF THE ACTION**

5 1. This action arises out of injuries Plaintiffs sustained as a result of ingesting one or
 6 more of the prescription drugs Viread, Truvada, Atripla, Complera, and Stribild, which are
 7 manufactured and marketed by Gilead for the treatment of Human Immunodeficiency Virus-1
 8 ("HIV") infection.¹

9 2. Gilead designed each of the drugs to contain a form of the compound tenofovir that
 10 Gilead knew was toxic to patients' kidneys and bones. Tenofovir is a nucleotide analogue reverse
 11 transcriptase inhibitor ("NRTI"), one of the classes of antiretroviral drugs used to treat HIV. NRTIs
 12 work by blocking an enzyme HIV needs to replicate. Gilead did not discover tenofovir. Scientists
 13 in Europe discovered tenofovir in the 1980s, and though the anti-HIV properties of tenofovir were
 14 promising, it had a downside: it cannot be administered effectively by mouth.

15 3. Because an intravenous tenofovir formulation had little sales potential, Gilead
 16 developed a form of tenofovir, tenofovir disoproxil, which can be taken orally.² The fumaric acid
 17 salt of tenofovir disoproxil is tenofovir disoproxil fumarate ("TDF"). When a patient takes a pill
 18 containing TDF, the patient's body converts TDF into tenofovir. Although TDF can be taken by
 19 mouth, a high dose of 300 mg is typically required to achieve the desired therapeutic effect.

20 4. Gilead designed TDF 300 mg to be an active ingredient in five drugs that are
 21 approved to treat HIV: Viread (TDF 300 mg tablets), approved October 26, 2001; Truvada (TDF

22
 23 ¹ Viread is also indicated to treat Hepatitis B. And Truvada is also indicated for use in
 24 combination with safe sex practices for pre-exposure prophylaxis (PrEP) to reduce the risk of
 sexually acquired HIV-1 in adults at high risk.

25 ² Tenofovir disoproxil is a prodrug form of tenofovir. Prodrugs are pharmacologically inactive
 26 compounds that can be more efficiently absorbed into the bloodstream and then converted into the
 active form of the drug within the body.

COMPLAINT FOR DAMAGES – 1

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1 300 mg/emtricitabine 200 mg tablets), approved August 2, 2004; Atripla (TDF 300
2 mg/emtricitabine 200 mg/efavirenz 600 mg tablets), approved July 12, 2006; Complera (TDF 300
3 mg/emtricitabine 200 mg/rilpivirine 25 mg tablets), approved August 10, 2011; and Stribild (TDF
4 300 mg/emtricitabine 200 mg/elvitegravir 150 mg/cobicistat 150 mg tablets), approved August 27,
5 2012 (collectively, these are the “TDF Drugs”).

6 5. Before Gilead began selling its first TDF Drug, Viread, in 2001, Gilead knew that
7 TDF posed a safety risk to patients’ kidneys and bones. Gilead knew that two of its other antiviral
8 drugs with structures similar to tenofovir, cidofovir and adefovir dipivoxil, had been highly
9 nephrotoxic (i.e., toxic to kidneys) and that preclinical data for TDF showed that it could cause
10 significant kidney and bone damage. Gilead also knew that the relatively high dose of TDF created
11 a greater risk of toxic effects, and that bone and kidney toxicities were even more likely to be seen
12 with long-term use of TDF for the treatment of a virus that, for the foreseeable future, has no cure.

13 6. Gilead’s knowledge of the toxic effects of TDF only grew as patients began
14 treatment with and were injured by each successive TDF product. By the time Gilead designed
15 Stribild, it had ten years’ worth of cumulative evidence that TDF injured patients’ kidneys and
16 bones.

17 7. Gilead also knew, before it obtained approval to market Viread and Gilead’s
18 subsequent TDF Drugs, that it had discovered a safer tenofovir prodrug, tenofovir alafenamide
19 fumarate (“TAF”). TAF is absorbed into the cells HIV targets much more efficiently than TDF.
20 As a result, TAF can be administered at a dramatically reduced dose compared to TDF, but still
21 achieve the same or higher concentrations of active tenofovir in the target cells. Because TAF can
22 be administered at a much lower dose than TDF, its use is associated with less toxicity and fewer
23 side effects. A 25 mg dose of TAF achieves the same therapeutic effect as a 300 mg dose of TDF,
24 with a better safety profile. Despite knowing that TAF could be given at a much lower, safer dose,
25 Gilead designed Viread, Truvada, Atripla, Complera, and Stribild to contain TDF rather than safer
26 TAF.

COMPLAINT FOR DAMAGES – 2

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1 8. Falsey claiming that TAF was not different enough from TDF, Gilead abruptly
2 shelved its TAF design in 2004. However, as John Milligan, Gilead's President and Chief
3 Executive Officer, later admitted to investment analysts, the real reason Gilead abandoned the TAF
4 design was that TAF was *too different* from TDF. Once Gilead's first TDF product, Viread, was
5 on the market, Gilead did not want to hurt TDF sales by admitting that its TDF-based products are
6 unreasonably and unnecessarily unsafe.

7 9. It was crucial at that time for Gilead to increase Viread sales, which comprised 53%
8 of Gilead's total product sales in 2002, and 68% of Gilead's total product sales in 2003. Gilead
9 was so desperate to expand Viread sales that when promoting the drug to doctors, it called Viread
10 a "miracle drug" with "no toxicities." Gilead did not tell doctors the facts: that Viread posed
11 significant risks to patients' kidneys and bones.

12 10. In addition, Gilead knew that by withholding the safer TAF design, it could extend
13 the longevity of its HIV drug franchise and make billions two times over: first, with TDF
14 medications until TDF patent expiration, which would begin by no later than 2018, and second,
15 with TAF medications until TAF patent expiration as late as 2032. Only once Gilead realized
16 billions in sales through most of the TDF patent life did it seek to market safer TAF-based versions
17 of its HIV medications.

18 11. Finally, in 2015, Gilead began selling the first of its TAF-designed medicines and
19 convinced doctors to switch their patients from TDF-based to TAF-based regimens by
20 demonstrating TAF's superior safety profile over TDF with respect to kidney and bone toxicity—
21 the very benefits that Gilead could have and should have incorporated into its prior product designs
22 but withheld from doctors and patients for over a decade.

23 12. Gilead also made Stribild even more dangerous to Plaintiffs when it designed the
24 drug to include cobicistat in combination with 300 mg TDF. Cobicistat is a pharmacoenhancer or
25 "booster" that inhibits the breakdown of elvitegravir, another active ingredient in Stribild.
26

COMPLAINT FOR DAMAGES – 3

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1 Cobicistat allows elvitegravir to persist in the patient's system long enough to permit once-daily
2 dosing.

3 13. Gilead knew years before it developed Stribild that: (a) higher tenofovir
4 concentrations in patients' blood, as opposed to the target cells, endangers the kidneys;
5 (b) tenofovir concentrations in patients' blood increase significantly when patients take tenofovir
6 with a booster; and (c) TDF-associated renal toxicity occurs more frequently in patients taking
7 TDF as part of a boosted regimen.

8 14. When Gilead developed its first TAF-based antiviral product, Genvoya—which is
9 Stribild with TAF in place of TDF—Gilead reduced the dose of TAF from 25 mg to 10 mg to
10 account for the fact that cobicistat significantly increases tenofovir concentrations. Gilead knew to
11 reduce the dose of TAF in Genvoya before it submitted Stribild to the FDA for marketing approval.
12 Despite this knowledge, Gilead did not reduce the dose of TDF when it designed Stribild. Stribild
13 is even more toxic to patients' kidneys and bones than Gilead's other TDF-based products.

14 15. In addition to withholding safer designs, Gilead failed to adequately warn
15 physicians and patients about the risks and safe use of TDF. Gilead provided only the weakest,
16 inadequate warnings to doctors and patients about the need for frequent monitoring of all patients
17 for TDF-associated kidney and bone damage—preventing doctors from detecting early signs of
18 TDF toxicity.

19 16. Gilead provides stronger monitoring warnings to physicians and patients in the
20 European Union (EU) than it does in the United States for the exact same TDF products. Contrary
21 to its U.S. labeling, Gilead has consistently recommended, since the approval of its first TDF Drug
22 in the EU, that doctors in the EU monitor all TDF Drug patients for multiple markers of TDF
23 toxicity on a frequent, specified schedule. There is no scientific or medical rationale for these
24 differences. Gilead was more concerned with increasing or maintaining crucial U.S. sales than it
25 was in safeguarding patients from the known risks of TDF.

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COMPLAINT FOR DAMAGES – 4

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1 17. Gilead could have strengthened the warnings in its U.S. labels at any time,
 2 including before FDA approval for all TDF Drugs and after FDA approval for Viread, Truvada,
 3 Atripla, and Complera. After August 2008 through July 2012, Gilead could have unilaterally
 4 strengthened the warnings in its TDF Drug labels after approval based on: increasing evidence that
 5 patients with and without preexisting risk factors were experiencing adverse effects with a
 6 frequency and severity greater than reported in Gilead's Viread clinical trials; expanding evidence
 7 that all patients are at risk for TDF-induced nephrotoxicity; and Gilead's own determinations to
 8 give stronger warnings regarding the exact same TDF Drugs in the EU. This post-approval
 9 information demonstrated risks of a different frequency and severity than information previously
 10 presented to the FDA.

11 18. Gilead intentionally withheld a safer alternative design of TDF Drugs it knew to be
 12 dangerously toxic to patients' kidneys and bones, while failing to adequately warn about the risks
 13 and safer use of the defective drugs, solely to make more money. Accordingly, Plaintiffs bring this
 14 action to recover damages for their personal injuries and seek punitive damages arising from
 15 Gilead's willful and wanton conduct.

16 II. JURISDICTION AND VENUE

17 19. This Court has subject matter jurisdiction pursuant to Rev. Code Wash. § 2.08.010.
 18 This Court has personal jurisdiction over Gilead, pursuant to Rev. Code Wash. § 4.28.125, because
 19 Gilead transacted business and committed a tortious act within this state.

20 20. Venue is proper in this county pursuant to Rev. Code Wash. § 4.12.020(3) because
 21 some part of the action arose in Spokane County, and Rev. Code Wash. §§ 4.12.025(1), (3) because
 22 Gilead transacts business in Spokane County, and injured Plaintiffs in Spokane County.

23 III. PARTIES

24 21. Plaintiffs are consumers who ingested one or more of the following TDF Drugs:
 25 Viread, Truvada, Atripla, Complera, or Stribild.

26 22. Plaintiffs suffered personal injuries caused by ingesting TDF.

COMPLAINT FOR DAMAGES – 5

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1 23. Plaintiff Vaughn L. Bresheare is and was at all relevant times a citizen of the State
 2 of Washington and domiciled in Spokane, Washington. Plaintiff Vaughn L. Bresheare purchased
 3 and ingested the following TDF Drugs for an FDA-approved use of the drugs: Truvada, Atripla,
 4 and Complera beginning in 2009. As a result of Gilead's wrongful conduct with respect to the
 5 defective TDF Drugs, Plaintiff ingested and was injured by the foregoing TDF Drugs. Plaintiff's
 6 ingestion of the TDF Drugs caused and/or contributed to Plaintiff suffering high creatinine levels
 7 and low kidney function. Plaintiff required and incurred and will continue to require and incur
 8 expenses in connection with medical treatment as a result of these injuries. Plaintiff has endured
 9 and will continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result
 10 of his injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and
 11 damages to be proven at trial.

12 24. Plaintiff John Doe 27 is and was at all relevant times a citizen of the State of
 13 Washington and domiciled in Spokane, Washington. Plaintiff John Doe 27 purchased and ingested
 14 the following TDF Drug for an FDA-approved use of the drug: Atripla beginning in 2006. As a
 15 result of Gilead's wrongful conduct with respect to the defective TDF Drug, Plaintiff ingested and
 16 was injured by the foregoing TDF Drug. Plaintiff's ingestion of the TDF Drug caused and/or
 17 contributed to Plaintiff suffering bone demineralization, which resulted in a diagnosis of
 18 osteoporosis. Plaintiff required and incurred and will continue to require and incur expenses in
 19 connection with medical treatment as a result of these injuries. Plaintiff has endured and will
 20 continue to endure pain, suffering, mental anguish, and loss of enjoyment of life as a result of his
 21 injuries, has suffered lost earnings and/or a loss of earning capacity, and other injuries and damages
 22 to be proven at trial.

23 25. Defendant Gilead Sciences, Inc. is a Delaware corporation with its principle place
 24 of business at 333 Lakeside Drive, Foster City, California. Gilead is a biopharmaceutical company
 25 that develops, manufactures, markets, and sells prescription medicine, including, but not limited
 26

COMPLAINT FOR DAMAGES - 6

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1 to, Viread, Truvada, Atripla, Complera, Stribild, Genvoya, Odefsey, and Descovy. Gilead reported
 2 revenue of \$26.1 billion dollars in 2017 and has operations worldwide.

3 IV. FACTUAL ALLEGATIONS

4 26. Gilead's "Company Overview" states: "With each new discovery and
 5 investigational new drug candidate, we seek to improve the care of patients living with life-
 6 threatening diseases around the world."³ It would more accurately state: We seek to improve the
 7 care of patients living with life-threatening diseases *only if and when it suits the company's*
 8 *financial needs.*

9 A. Background

10 1. **Laws and regulations governing the approval and labeling of prescription**
 11 **drugs.**

12 27. The Federal Food, Drug, and Cosmetic Act ("FDCA" or the "Act") requires
 13 manufacturers that develop a new drug product to file a New Drug Application ("NDA") in order
 14 to obtain approval from the Food and Drug Administration ("FDA") before selling the drug in
 15 interstate commerce. 21 U.S.C. § 355.

16 28. The NDA must include, among other things, data regarding the safety and
 17 effectiveness of the drug, information on any patents that purportedly cover the drug or a method
 18 of using the drug, and the labeling proposed to be used for the drug. 21 U.S.C. § 355(b).

19 29. Manufacturers with an approved NDA must review all adverse drug experience
 20 information obtained by or otherwise received by them from any source, including but not limited
 21 to postmarketing experience, reports in the scientific literature, and unpublished scientific papers.
 22 21 C.F.R. § 314.80(b).

23 30. After FDA approval, manufacturers may only promote drugs in a manner consistent
 24 with the contents of the drug's FDA-approved label. 21 C.F.R. § 202.1. The FDA's Division of

25 _____
 26 ³ See, e.g., Gilead Sciences Company Overview, available at <http://www.gilead.com/~media/Files/pdfs/other/US%20Corporate%20Overview%20%20111014.pdf>.

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1 Drug Marketing, Advertising, and Communications monitors manufacturers' promotional
2 activities and enforces the FDCA and its implementing regulations to ensure compliance.

3 31. Under what is known as the Changes Being Effected ("CBE") regulation, a
4 manufacturer with an approved NDA can make certain changes to its label without prior FDA
5 approval by simply sending the FDA a "supplemental submission." 21 C.F.R. § 314.70(c)(6)(iii).

6 32. Changes to the labeling a manufacturer can make pursuant to CBE without prior
7 FDA approval include those to "add or strengthen a contraindication, warning, precaution, or
8 adverse reactions for which the evidence of causal association satisfies the standard for inclusion
9 in the labeling under § 201.57(c) of this chapter" and "to add or strengthen an instruction about
10 dosage and administration that is intended to increase the safe use of the drug product." 21 C.F.R.
11 § 314.70(c)(6)(iii)(A) and (C).

12 33. A manufacturer must revise its label "to include a warning about a clinically
13 significant hazard as soon as there is reasonable evidence of a causal association with a drug; a
14 causal relationship need not have been definitively established." 21 C.F.R. § 201.57(c)(6).

15 34. The warnings section of the label "must identify any laboratory tests helpful in
16 following the patient's response or in identifying possible adverse reactions. If appropriate,
17 information must be provided on such factors as the range of normal and abnormal values expected
18 in the particular situation and the recommended frequency with which tests should be performed
19 before, during, and after therapy." Id. § 201.57(c)(6)(iii). According to an FDA Guidance for
20 Industry on the warnings and precautions section of the labeling, "[i]nformation about the
21 frequency of testing and expected ranges of normal and abnormal values should also be provided
22 if available."⁴

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26 ⁴ <https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM075096.pdf>.

COMPLAINT FOR DAMAGES – 8

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1 35. Adverse reactions must be added to the label where there “is some basis to believe
 2 there is a causal relationship between the drug and the occurrence of the adverse event.” *Id.*
 3 § 201.57(c)(7).

4 36. An August 22, 2008 amendment to these regulations provides that a CBE
 5 supplement to amend the labeling for an approved product must reflect “newly acquired
 6 information.” 73 Fed. Reg. 49609. “Newly acquired information” is not limited to new data but
 7 also includes “new analysis of previously submitted data.” “[I]f a sponsor submits adverse event
 8 information to FDA, and then later conducts a new analysis of data showing risks of a different
 9 type or of greater severity or frequency than did reports previously submitted to FDA, the sponsor
 10 meets the requirement for ‘newly acquired information.’” *Id.* at 49607.

11 37. Under the 1984 Hatch-Waxman Amendments to the Act, Congress sought to
 12 expedite the entry of less expensive generic versions of brand name drugs by simplifying the
 13 generic approval process. A generic manufacturer seeking to sell a generic version of a brand name
 14 drug may file an Abbreviated New Drug Application (“ANDA”), which relies on the brand
 15 manufacturer’s safety and efficacy data. The ANDA filer must demonstrate that its proposed
 16 generic product is therapeutically equivalent to the brand name drug, meaning that it: (a) contains
 17 the same active ingredient(s), dosage form, route of administration, and strength as the brand name
 18 drug; and (b) is bioequivalent to the brand drug (i.e., the drugs exhibit the same rate and extent of
 19 absorption).

20 38. As a counter-balance to the abbreviated process for the approval of generic drugs,
 21 Hatch-Waxman may grant brand manufacturers a period of market exclusivity upon approval of
 22 the NDA. For example, Hatch-Waxman grants a five-year period of exclusivity (regardless of any
 23 patent protection) to products containing chemical entities not previously approved by the FDA.
 24 Under this five-year exclusivity, the FDA cannot even accept an ANDA to make a generic version
 25 of the drug for four or five years from NDA approval (depending upon whether the generic asserted
 26 that the brand’s patents were invalid or not infringed).

COMPLAINT FOR DAMAGES – 9

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1 39. Hatch-Waxman also streamlined the process for brand manufacturers to attempt to
 2 enforce their patents against potential infringement by generic manufacturers. If an ANDA
 3 contains a certification that the patents the brand has listed in its NDA are invalid or will not be
 4 infringed by the ANDA generic product (a “Paragraph IV certification”), the brand manufacturer
 5 can automatically delay FDA approval of the generic drug by suing the generic manufacturer for
 6 patent infringement. If the brand manufacturer brings a patent infringement action against the
 7 generic filer within 45 days of receiving notification of the Paragraph IV certification, the FDA
 8 may not grant final approval to the ANDA until the earlier of (a) the passage of two and a half
 9 years, or (b) the issuance of a court decision that the patent is invalid or not infringed by the generic
 10 manufacturer’s ANDA. 21 U.S.C. § 355(j)(5)(B)(iii).

11 40. Generic drugs that are therapeutically equivalent to the brand name drug may be
 12 automatically substituted for the brand at the pharmacy counter. Due to state automatic substitution
 13 laws that permit or require generic substitution, once a generic version of a brand-name drug enters
 14 the market, the generic quickly captures the vast majority of the brand’s sales, often obtaining 80%
 15 or more of unit sales within the first six months. On average, generics capture 90% of brand unit
 16 sales within the first year of generic entry.

17 2. **Tenofovir and Gilead’s TDF- and TAF- containing drug products indicated
 18 for use in treating HIV.**

19 41. Tenofovir (chemical name, 9-(2-Phosphonomethoxypropyl)adenine (“PMPA”)) is
 20 a type of medicine called a nucleotide analog reverse transcriptase and HBV polymerase inhibitor
 21 (“NRTI”).

22 42. In order for HIV to infect a healthy human cell, the virus must convert its
 23 ribonucleic acid (“RNA”) based genome into a strand of complementary deoxyribonucleic acid
 24 (“DNA”). This process of converting the virus’s RNA into DNA is reverse transcription, and is
 25 performed by an enzyme named reverse transcriptase. Reverse transcription occurs inside the
 26 human cell that the virus is infecting.

COMPLAINT FOR DAMAGES - 10

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1 43. NRTIs prevent the reverse transcriptase from converting its RNA into DNA,
 2 preventing the infection of the cell and spread of HIV. In order for NRTIs to stop HIV from
 3 infecting a cell, the drug must be absorbed into the cell and “activated” by the cell’s biological
 4 machinery. The “activated” form of tenofovir is known as tenofovir-diphosphate (“TFV-DP”).

5 44. When used to treat HIV infection, tenofovir must be administered in combination
 6 with other anti-HIV drugs, a practice known as “combination antiretroviral therapy” or “cART.”
 7 By using a combination of different classes of medications, physicians can customize treatment
 8 based on factors including how much virus is in the patient’s blood, the particular strain of the
 9 virus, and disease symptoms. The aim of cART is to reduce the viral load—i.e., the amount of
 10 virus per unit of blood or plasma, of patients to levels where commercial viral load tests cannot
 11 detect the presence of the virus (generally a concentration of lower than 50 HIV-1 RNA copies per
 12 mL of plasma). A cART treatment regimen can incorporate multiple standalone pills or a single
 13 pill coformulated with all drugs necessary for the regimen.

14 45. Gilead did not discover tenofovir. Tenofovir was discovered in the mid-1980s by
 15 the collaborative research efforts of scientists in Prague and Belgium. Although the anti-HIV
 16 properties of tenofovir were promising, it had a significant downside. When tenofovir is
 17 administered by mouth, very little of it is absorbed into the body.

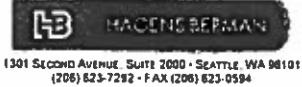
18 46. Because an intravenous formulation had little sales potential, Gilead developed a
 19 prodrug form of tenofovir that can be taken orally. Prodrugs are pharmacologically inactive
 20 compounds that can be more efficiently absorbed into the bloodstream and then converted into the
 21 active form of the drug within the body.

22 47. One prodrug of tenofovir is tenofovir disoproxil (chemical name,
 23 bis(isopropyloxycarbonyloxymethyl)-PMPA or bis-POC PMPA). The fumaric salt of tenofovir
 24 disoproxil is tenofovir disoproxil fumarate, commonly known as TDF.

25 48. While TDF is able to be taken by mouth, the proportion of tenofovir that enters the
 26 cells is relatively low. In order to have the desired therapeutic effect, a high dose of TDF must be

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1 administered. The standard dose of TDF for HIV treatment and prevention in adults is relatively
 2 large—300 mg taken once a day. A general principle of toxicology is that the “dose makes the
 3 poison”—i.e., larger doses are generally associated with higher rates of toxicity and adverse
 4 events. Tenofovir is no different.

5 49. Gilead has received FDA approval for five TDF-based drugs for the treatment of
 6 HIV.

7 50. On October 26, 2001, the FDA approved Gilead’s NDA 21356 for Viread (300 mg
 8 TDF) tablets for use in combination with other antiretroviral agents for the treatment of HIV-1
 9 infection. Gilead submitted limited clinical data supporting approval of the drug. Gilead had not
 10 completed Phase III clinical studies. Gilead excluded from its clinical trials people who had serious
 11 preexisting kidney dysfunction. And Gilead only studied Viread in treatment-experienced patients
 12 (those who had previously been treated for HIV). In 2008, the FDA approved an additional Viread
 13 indication for the treatment of Chronic Hepatitis B.

14 51. On August 2, 2004, the FDA approved Gilead’s NDA 21752 for Truvada tablets,
 15 which is a combination product containing 300 mg TDF (i.e., Viread) and 200 mg emtricitabine,
 16 for use in combination with other antiretroviral agents for the treatment of HIV-1 infection in
 17 adults. Neither of the active ingredients in Truvada was new. The FDA approved the Truvada
 18 application based primarily on data showing the fixed-dose combination drug was bioequivalent
 19 to its separate components. On July 16, 2012, the FDA approved an additional indication for the
 20 use of Truvada in combination with safer sex practices for pre-exposure prophylaxis (PrEP) to
 21 reduce the risk of sexually acquired HIV-1 in adults at high risk.

22 52. On July 12, 2006, the FDA approved Gilead’s NDA 21937 for Atripla tablets,
 23 which is a combination product containing 300 mg TDF, 200 mg emtricitabine, and 600 mg
 24 efavirenz, for use alone as a complete regimen or in combination with other retroviral agents for
 25 the treatment of HIV-1 infection in adults. Gilead submitted no clinical data in support of NDA
 26

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1 21937. None of the active ingredients in Atripla were new. Approval was based on a demonstration
 2 of bioequivalence between the individual components and the fixed-dose combination.

3 53. On August 10, 2011, the FDA approved Gilead's NDA 202123 for Complera
 4 tablets, which is a fixed dose combination product containing 300 mg TDF, 200 mg emtricitabine,
 5 and 25 mg rilpivirine, for use as a complete regimen for the treatment of HIV-1 infection in
 6 treatment-naïve adults (i.e., adults who had not been previously treated for HIV). None of the
 7 active ingredients in Complera were new. Gilead submitted no new clinical safety or efficacy trials
 8 in connection with NDA 20123. Approval was based on the results of bioequivalence studies
 9 comparing the combination product to the individual component drugs. In addition, the primary
 10 focus of the FDA's safety and medical review of the Complera NDA was on rilpivirine, since that
 11 drug was the most recently approved component of the fixed dose combination Complera tablet.

12 54. On August 27, 2012, the FDA approved Gilead's NDA 203100 for Stribild, which
 13 is a fixed dose combination product containing 300 mg TDF, 200 mg emtricitabine, 150 mg
 14 elvitegravir, and 150 mg cobicistat, for use as a complete regimen for the treatment of HIV-1
 15 infection in treatment-naïve adults. Although elvitegravir and cobicistat had not been previously
 16 approved by the FDA, the FDA gave Gilead's Stribild NDA a 10-month standard review because
 17 there were already multiple regimens available for treatment naïve patients including one pill,
 18 once-a-day regimens.

19 55. Before the FDA approved Viread in 2001, Gilead had discovered another prodrug
 20 version of tenofovir, which it originally called GS-7340 and which is now known as tenofovir
 21 alafenamide fumarate ("TAF"). TDF and TAF are two prodrug versions of the same parent drug,
 22 tenofovir, though TAF requires a dose more than ten times smaller than TDF to achieve the same
 23 therapeutic effect.

24 56. TAF differs from TDF in its penetration into target cells. Unlike TDF, which is
 25 converted into the parent drug tenofovir in the gastrointestinal tract, liver, and blood, TAF is not
 26 converted into tenofovir until it has been absorbed by the cell. This allows TAF to be more

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1 efficiently absorbed by "target cells"—i.e., cells that HIV infects or "targets"—compared to TDF.
 2 This more efficient absorption allows TAF to achieve far greater intracellular concentrations of
 3 the activated drug (tenofovir-diphosphate) in target cells than even a dramatically larger dose of
 4 TDF. This enhanced efficiency in absorption leads to plasma concentrations of tenofovir that are
 5 90% lower than TDF, while still maintaining intracellular concentrations of activated drug in target
 6 cells that is the same or higher than TDF. The lowered plasma concentrations of tenofovir found
 7 with TAF result in reduced toxicity compared to TDF, making TAF safer to use than TDF.

8 57. On November 5, 2015, the FDA approved Gilead's first TAF-based design—NDA
 9 207561 for Genvoya tablets, a fixed dose combination product which contains 10 mg TAF, 200
 10 mg emtricitabine, 150 mg elvitegravir, and 150 mg cobicistat. Genvoya is indicated for the
 11 treatment of HIV-1 infection in adults and pediatric patients 12 years of age or older who have no
 12 antiretroviral treatment history or to replace the current antiretroviral regimen in those who are
 13 virologically suppressed (HIV-1 RNA less than 50 copies per mL) on a stable antiretroviral
 14 regimen for at least six months with no history of treatment failure and no known substitutions
 15 associated with resistance to the individual components of Genvoya. The TDF-based counterpart
 16 to Genvoya is Stribild. Genvoya is identical to Stribild except for the substitution of TAF for TDF.

17 58. On March 1, 2016, the FDA approved Gilead's NDA 208351 for Odefsey tablets,
 18 which is a combination product containing 25 mg TAF, 200 mg emtricitabine, and 25 mg
 19 rilpivirine, for use as a complete regimen for the treatment of HIV-1 infection in patients 12 years
 20 of age and older as initial therapy in those with no antiretroviral treatment history with HIV-1
 21 RNA less than or equal to 100,000 copies per mL; or to replace a stable antiretroviral regimen in
 22 those who are virologically-suppressed (HIV-1 RNA less than 50 copies per mL of blood or
 23 plasma) for at least six months with no history of treatment failure and no known substitutions
 24 associated with resistance to the individual components of Odefsey. The TDF-based counterpart
 25 to Odefsey is Complera. Odefsey is identical to Complera except for the substitution of TAF for
 26 TDF.

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1 59. On April 4, 2016, the FDA approved Gilead's NDA 208215 for Descovy tablets,
 2 which is a fixed dose combination product containing 25 mg TAF and 200 mg emtricitabine, for
 3 use in combination with other antiretroviral agents, for treatment of HIV-1 infection in adults and
 4 pediatric patients 12 years of age or older. The TDF-based counterpart to Descovy is Truvada.
 5 Descovy is identical to Truvada except for the substitution of TAF for TDF.

6 60. Upon information and belief, Gilead has not sought FDA approval of a standalone
 7 TAF drug product for the treatment of HIV. Viread, therefore, has no TAF-based counterpart for
 8 the treatment of HIV infection. Although the FDA approved Gilead's NDA 208464 for Vemlidy
 9 (300 mg TAF) tablets on November 10, 2016, Gilead only sought approval to market Vemlidy for
 10 the treatment of Hepatitis B infection in adults with compensated liver disease and thus cannot be
 11 marketed for the treatment of HIV.

12 B. **Gilead knew before Viread was approved that TDF posed a significant safety risk.**

13 61. Before Gilead's first TDF product, Viread, received FDA approval in 2001, Gilead
 14 knew that two of its other antiviral drugs that are structurally similar to tenofovir caused significant
 15 kidney damage.

16 62. Tenofovir is a member of a class of molecules known as "acyclic nucleoside
 17 phosphonates." Two of Gilead's other antiviral drugs—cidofovir and adefovir⁵—are also acyclic
 18 nucleoside phosphonates.

19 63. Cidofovir injection, marketed as Vistide, was Gilead's first commercial product.
 20 When the FDA approved Vistide in 1996, it carried a black box warning stating that renal
 21 impairment is the drug's major toxicity and renal failure resulting in dialysis or contributing to
 22 death have occurred with as few as one or two doses of Vistide.

23 64. In December 1999, Gilead abandoned development of NRTI prodrug adefovir
 24 dipovoxil for the treatment of HIV after it proved so toxic to patients' kidneys in the later stages

25

⁵ Like tenofovir, only a prodrug of adefovir—adefovir dipovoxil—can be effectively
 26 administered orally.

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1 of Phase III clinical trials. In Gilead's clinical trial GS-408, 59% of patients demonstrated severe
2 kidney toxicity after 72 weeks. One patient in the trial died due to multiorgan failure subsequent
3 to kidney failure. Based on this experience, Gilead knew that adefovir dipivoxil was associated
4 with delayed nephrotoxicity—meaning that its toxic effects might not be felt for some time after
5 continued use. Gilead would later develop and market adefovir dipivoxil as Hepsera for treatment
6 of hepatitis B virus infection. Critically, Gilead recognized that if it reduced the dose of adefovir
7 dipivoxil from 120 mg—as used in trial GS-408 for the treatment of HIV—to 10 mg (the dose in
8 Hepsera), an effective dose for hepatitis B virus treatment, the risk of nephrotoxicity is
9 dramatically reduced.

10 65. Tenofovir has a nearly identical structure to adefovir, varying only by the presence
11 of a methyl group (i.e., a carbon atom bound to three hydrogen atoms) in tenofovir, which replaces
12 a hydrogen atom in adefovir. As Gilead recognized in its 10-K for the year ending December 31,
13 2000, due to its experiences with nephrotoxicity in Phase III clinical trials of adefovir dipivoxil,
14 delayed toxicity issues similar to those experienced with adefovir dipivoxil could arise with TDF.

15 66. Gilead also knew that while prodrugs allow the drug to be efficiently absorbed into
16 the bloodstream and then converted into an active form within the body, the conversion of the TDF
17 prodrug into free tenofovir outside the cell, and the presence of high levels of free tenofovir in the
18 blood, endangers the kidneys.

19 67. The primary purpose of the kidney is to filter out toxins and waste products from
20 the blood, as well as help maintain the delicate balance of water, salts and other compounds in a
21 person's blood. The functional unit of the kidney is the nephron, a microscopic structure that
22 consists of two primary components: a renal "corpuscle" and a renal "tubule." On average, each
23 kidney contains hundreds of thousands to millions of nephrons.

24 68. The renal corpuscle is the component of the nephron that directly filters the blood.
25 Blood flows through a network of capillaries (small blood vessels) known as the glomerulus. The
26 walls of these capillaries work as a filter, allowing certain compounds, as well as water, to pass

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1 through. The fluid that is filtered through the capillary walls in the glomerulus, known as the
 2 filtrate, is collected by a structure known as Bowman's capsule. One of the ways kidney function
 3 is measured is by the rate of blood that is filtered by the glomeruli. This is known as the glomerular
 4 filtration rate or "GFR."⁶

5 69. In Bowman's capsule, the filtrate is collected and drains into the other primary
 6 component of the nephron, the tubule. Glomerular filtration is highly effective at removing many
 7 toxins, but it also filters out many compounds, like water and electrolytes, that a person needs. In
 8 the tubule, the cells lining the tubule put these crucial, non-toxic compounds back into the blood,
 9 as well as filter out remaining toxins that glomerular filtration did not remove. After the filtrate
 10 exits the tubule, it drains into the bladder. This processed filtrate is urine.

11 70. This system of filtering the blood is extremely important and delicate. TDF
 12 primarily damages the nephron tubule, due to hyper-concentration of free tenofovir within the
 13 tubule cells of the nephron, which results in cell death or dysfunction. If the tubule cells are
 14 dysfunctional or dead, they are unable or less able to perform the vital function of filtering waste
 15 and/or toxins and reabsorbing beneficial compounds. Tubular injury can occur without a decline
 16 in a patient's glomerular filtration rate. Physicians must monitor other markers of kidney
 17 function—those that assess tubule function specifically, like serum phosphorus or urine glucose,
 18 to assess a patient's true kidney health.

19 71. Because tenofovir is renally eliminated, through glomerular filtration and proximal
 20 tubular secretion, patients are exposed to an increased concentration of tenofovir as the kidneys
 21

22 ⁶ GFR is not measured directly. Physicians typically estimate a patient's GFR by testing for
 23 serum creatinine or by calculating creatinine clearance. Creatinine is a waste product that is
 24 produced by the breakdown of muscle tissue and created at a relatively constant rate by the body.
 25 The kidneys filter creatinine from the blood into the urine, and reabsorb almost none of it. If the
 26 kidney is damaged, the ability of the body to remove creatinine from the blood can be reduced,
 resulting in high levels of creatinine in the blood. Serum creatinine is the amount of creatinine in
 the blood. Creatinine clearance is the rate at which the kidneys clear creatinine from the blood and
 is measured using the amount of creatinine present in urine over 24 hours. As renal function goes
 down, creatinine clearance also goes down.

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1 become damaged. Because exposure to an increased concentration of tenofovir increases toxicity,
 2 patients' kidney function must be monitored to ensure that their kidneys remain healthy enough to
 3 receive tenofovir.

4 72. Since scientists first synthesized TDF, studies have consistently shown that it could
 5 cause significant kidney and bone damage. For example, an animal study published in 1999
 6 showed that high doses of tenofovir were associated with significant bone toxicity in both simian
 7 immunodeficiency virus (SIV, the non-human primate version of HIV) infected and uninfected
 8 rhesus macaques, with a quarter of the treated animals experiencing significant bone toxicity.

9 73. Gilead's preclinical studies of TDF showed that it could be toxic to kidneys and
 10 bones. Preclinical animal studies of TDF showed evidence of renal toxicity and that TDF exposure
 11 caused bone toxicity in the form of softening of the bones (osteomalacia) and reduced bone mineral
 12 density. Nephrotoxicity in animal models was related to dose as well as to duration of therapy.

13 74. Gilead also knew that the relatively high dose of TDF needed to achieve the desired
 14 therapeutic effect created a greater risk of toxic effects, and that bone and kidney toxicities were
 15 even more likely with the long-term use of TDF which was needed to combat a disease with no
 16 known cure.

17 C. **Gilead's knowledge of TDF toxicity grew as patients' kidneys and bones were
 18 damaged by the TDF Drugs.**

19 75. As soon as Gilead began marketing Viread, patients started experiencing the
 20 nephrotoxic effects of TDF.

21 76. In November 2001, less than one month after Viread entered the market, the first
 22 published case of TDF-associated acute renal failure occurred. Thereafter, additional reports of
 23 TDF-associated kidney damage, including but not limited to Fanconi syndrome, renal failure, renal
 24 tubular dysfunction, and nephrogenic diabetes insipidus, began to appear in the medical literature.
 25 Many of those adverse events occurred in patients without preexisting kidney dysfunction.

26

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1 77. Gilead was also seeing renal adverse events in its postmarketing safety data. In fact,
 2 the most common serious adverse events reported to Gilead were renal events, including renal
 3 failure,⁷ Fanconi syndrome,⁸ and serum creatinine increase.

4 78. In the first two years Viread was on the market, 40% of Viread adverse events
 5 reports received by Gilead were related to the renal/urinary system. This included 49 cases of
 6 increased creatinine, 16 cases of hypophosphatemia,⁹ 42 cases of renal insufficiency, 51 cases of
 7 acute renal failure, 6 cases of chronic renal failure, and 32 cases of Fanconi syndrome. These
 8 numbers are far less than the true incidence of kidney damage experienced by Viread patients
 9 during this timeframe because postmarketing adverse events are underreported.

10 79. Gilead had to update its Viread labeling at least four times to describe the kidney
 11 damage patients experienced when taking TDF:

- 12 a. On December 2, 2002, Gilead added that patients had suffered renal impairment,
 13 including increased creatinine, renal insufficiency, kidney failure, and Fanconi
 14 syndrome, with Viread use;
- 15 b. On October 14, 2003, Gilead added more kidney disorders, including acute renal
 16 failure, proximal tubulopathy,¹⁰ and acute tubular necrosis;¹¹

17
 18
 19
 20 ⁷ When the kidney cannot filter the blood normally, a patient is usually diagnosed with “renal
 21 failure.”

21 ⁸ If damage to the tubule prevents the reabsorption of beneficial molecules from filtrate, the
 22 levels of these beneficial compounds can become dangerously low in the blood. This is known as
 23 Fanconi syndrome.

23 ⁹ Hypophosphatemia is a low level of phosphorus in the blood, which can indicate that the
 24 ability of the nephron tubule to reabsorb phosphorus from the filtrate is damaged.

24 ¹⁰ Proximal tubulopathy refers to damage or dysfunction to the portion of the nephron tubule
 25 that is closest to Bowman’s capsule.

25 ¹¹ Acute tubular necrosis refers to the death of the cells that line the nephron tubule. This is
 26 associated with loss of kidney function.

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1 c. On May 12, 2005, Gilead added nephrogenic diabetes insipidus;¹² and
 2 d. On March 8, 2006, Gilead added polyuria¹³ and nephritis¹⁴ to the list of renal and
 3 urinary disorders that patients had experienced while on TDF.

4 As Gilead knew, injuries were not limited to patients with a history of renal dysfunction or other
 5 risk factors.

6 80. Gilead's long-term clinical data also demonstrated that TDF was damaging
 7 patients' bones. 48-week data showed greater decreases from baseline in bone mineral density at
 8 the lumbar spine and hip in patients taking Viread compared to those receiving other HIV drugs.
 9 At 144 weeks, there was a significantly greater decrease from baseline in bone mineral density at
 10 the lumbar spine in patients taking Viread compared to those receiving other HIV drugs, as well
 11 as significant increases in biochemical markers of bone turnover in patients taking Viread. And
 12 once Gilead began conducting clinical trials with Viread in adolescent and pediatric patients, the
 13 effects of TDF on adolescent and pediatric patients' bones were similar to the effects seen with
 14 adult patients.

15 81. After Gilead brought Truvada to market, the medical literature continued to identify
 16 cases of TDF-associated kidney damage, including in patients without preexisting renal
 17 dysfunction or co-administration with another nephrotoxic drug.

18 82. Several new studies presented at the February 2006 Conference on Retroviruses
 19 and Opportunistic Infections ("CROI") highlighted the frequency of nephrotoxicity in TDF-treated
 20 patients. In one study, CDC investigators analyzed longitudinal data from 11,362 HIV-infected
 21 patients, all of whom had GFR > 90mL/min at baseline, and found that treatment with TDF was
 22 significantly associated with mild and moderate renal insufficiency. In another, observational

23 ¹² Nephrogenic diabetes insipidus refers to a condition characterized by the production of a
 24 large amount of dilute urine as a result of kidney dysfunction. It is thought to be related to damage
 25 to the nephron tubule.

26 ¹³ Polyuria refers to the excessive production of urine.

¹⁴ Nephritis refers to the inflammation of the kidneys.

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1 study of 497 patients initiating TDF treatment, 17.5% developed renal dysfunction. The most
 2 severe declines in renal function were associated with TDF treatment as part of a boosted regimen.

3 83. In 2007, Gilead scientists published an article discussing the company's knowledge
 4 of TDF safety issues over the first four years of TDF treatment. Gilead reported that 0.5% of
 5 patients enrolled in a global expanded access program experienced a serious renal adverse event,
 6 including acute and chronic renal failure and Fanconi syndrome. A "serious" adverse event meant
 7 one resulting in hospitalization or prolongation of hospitalization, death, disability, or requiring
 8 medical intervention to prevent permanent impairment. Gilead also reported that through April
 9 2005 the most common serious adverse events reported to Gilead's postmarketing safety database
 10 were renal events, including renal failure, Fanconi syndrome, and serum creatinine increase.

11 84. Although this Gilead article demonstrates the company's clear and early knowledge
 12 of serious TDF toxicity in a significant number of patients, it downplayed the incidence of TDF-
 13 associated renal toxicity. In its Medical Review of the Stribild NDA in 2012, the FDA noted the
 14 limitations of Gilead's data, including the short duration of treatment, the voluntary nature of
 15 adverse event reporting in some countries, and the fact that Gilead only assessed serious adverse
 16 events, and not renal events leading to drug discontinuation or non-serious renal adverse events.
 17 According to the FDA, any of these factors may have led to an underestimation of the true
 18 incidence of renal events of interest. The FDA similarly questioned Gilead's data on the incidence
 19 of renal adverse events based on its postmarketing safety database given the voluntary nature of
 20 reporting.

21 85. Moreover, even if Gilead's data accurately captured the percentage of patients
 22 experiencing serious renal adverse events (which it did not), it would still represent a very large
 23 number of patients who experienced significant health problems due to TDF toxicity. For example,
 24 in late 2015, according to data from Symphony Health Solutions, nearly 500,000 people in the
 25 U.S. were ingesting TDF daily. Using Gilead's numbers, approximately 2,500 of those patients
 26 would likely experience severe kidney damage. Now that TDF has been on the market for nearly

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1 two decades, many thousands of patients have likely experienced severe TDF-induced kidney
 2 damage.

3 86. In May 2007, Gilead had to update its labeling to recognize that TDF-associated
 4 renal damage also caused osteomalacia (softening of the bones) in patients. In November 2008,
 5 Gilead modified the labeling to state that patients taking TDF had experienced osteomalacia due
 6 to proximal renal tubulopathy as bone pain, and that it might contribute to fractures.

7 87. In August 2008, Gilead had to update its labeling to recognize finally that TDF
 8 caused both “new onset” and “worsening” renal impairment—meaning, as Gilead knew years
 9 prior, that TDF was injuring patients’ kidneys even though they had no preexisting renal
 10 dysfunction.

11 88. During 2009–2011, studies continued to show that TDF caused a significant loss of
 12 renal function in HIV-infected patients.

13 89. Multiple articles described how the incidence of TDF-induced nephrotoxicity was
 14 underreported because studies often excluded patients who were most likely to exhibit nephrotoxic
 15 effects, including patients who combined TDF in a ritonavir-boosted regimen or with another
 16 nephrotoxic drug, older patients or those with advanced HIV disease, or those with mild baseline
 17 renal dysfunction. Notwithstanding selection bias that tended to hide TDF-associated kidney
 18 dysfunction, the evidence was clear that TDF caused renal tubular dysfunction in a significant
 19 percentage of HIV-infected patients.

20 90. In April 2012, researchers at the San Francisco Veterans’ Administration Medical
 21 Center and the University of California, San Francisco published their analysis of the medical
 22 records of more than 10,000 HIV-positive veterans in the national VA healthcare system, which
 23 is the largest provider of HIV care in the United States. The study authors found that for each year
 24 of tenofovir exposure, risk of protein in urine—a marker of kidney damage—rose 34%, risk of
 25 rapid decline in kidney function rose 11%, and risk of developing chronic kidney disease rose
 26

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1 33%. The risks remained after the researchers controlled for other kidney disease risk factors such
 2 as age, race, diabetes, hypertension, smoking, and HIV-related factors.

3 91. By the time it reviewed the Stribild NDA, the FDA stated that the safety profile of
 4 TDF was, by that point, "well-characterized in multiple previous clinical trials and is notable for
 5 TDF-associated renal toxicity related to proximal renal tubule dysfunction and bone toxicity
 6 related to loss of bone mineral density and evidence of increased bone turnover."¹⁵

7 92. With each passing year and each successive TDF product, Gilead learned even
 8 more about TDF's toxicity. Despite this knowledge, Gilead repeatedly designed the TDF Drugs to
 9 contain TDF as the tenofovir delivery mechanism rather than safer TAF.

10 D. **Before Gilead developed Stribild, it knew that renal adverse events were more likely
 11 when patients took TDF as part of a boosted regimen.**

12 93. Before Gilead first started marketing Viread, it knew that patients' exposure to
 13 tenofovir increases significantly when tenofovir is co-administered with a ritonavir-boosted
 14 protease inhibitor: the maximum concentration of tenofovir increased 31%; the minimum
 15 concentration of tenofovir increased 29%; and the area under the curve (the actual body exposure
 16 to the drug after dose administration) increased 34%.

17 94. In the first few years TDF was on the market, many reported cases of tenofovir-
 18 related renal damage involved patients taking TDF with a ritonavir-boosted protease inhibitor—
 19 leading authors to conclude that the risk of TDF-associated renal toxicity increased for patients on
 20 a boosted regimen. This is consistent with other patient populations at increased risk for renal
 21 toxicity, including those with low body weight and those taking another nephrotoxic drug; each is
 22 associated with higher levels of tenofovir exposure.

23
 24
 25 ¹⁵ FDA Center for Drug Evaluation and Research Summary Review for NDA 203100 at 10,
 26 available at https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000SumR.pdf.

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1 95. As Gilead recognized in the Precautions section of the July 1, 2004 Viread label:
 2 “[h]igher tenofovir concentrations could potentiate Viread-associated adverse events, including
 3 renal disorders.”¹⁶

4 96. Gilead further stated: “Atazanavir [another protease inhibitor] and
 5 lopinavir/ritonavir have been shown to increase tenofovir concentrations. The mechanism of this
 6 interaction is unknown. Patients receiving atazanavir and lopinavir/ritonavir and Viread should be
 7 closely monitored for Viread-associated adverse events. Viread should be discontinued in patients
 8 who develop Viread-associated adverse events.”¹⁷

9 97. Case study authors similarly called for careful monitoring of patients taking TDF
 10 in a boosted regimen, given the frequency of renal damage in such patients.

11 98. A 2008 Journal of Infectious Diseases article reported that the odds of developing
 12 significant renal function reduction were 3.7 times higher for patients receiving a regimen
 13 containing tenofovir plus ritonavir-boosted protease inhibitor than for those receiving tenofovir
 14 plus nonnucleoside reverse transcriptase inhibitor-based therapy, even after adjusting for viral
 15 load.

16 E. Before Gilead developed each of the TDF Drugs, it knew that TAF was less toxic to
 17 kidneys and bones than TDF.

18 99. Before the FDA approved Viread, Gilead had already discovered a different design
 19 for an orally available version of tenofovir that is more potent than TDF, meaning that it can be
 20 administered at a significantly lower dose with fewer side effects than TDF.

21 100. Unlike TDF, TAF is not converted into tenofovir until it has been absorbed by the
 22 cell. As a result, TAF is more efficiently absorbed by the cells HIV targets compared to TDF. This
 23 more efficient absorption allows TAF to achieve far greater intracellular concentrations of the

24
 25 ¹⁶ Viread (tenofovir disoproxil fumarate) Tablets label at 17, available at https://www.accessdata.fda.gov/drugsatfda_docs/label/2004/21356s1r010_viread_lbl.pdf.

26 ¹⁷ *Id.*

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1 activated drug (tenofovir-diphosphate) in target cells than even a dramatically larger dose of TDF,
 2 while achieving plasma concentrations of tenofovir that are 90% lower than TDF. The lowered
 3 plasma concentrations of tenofovir found with TAF result in reduced toxicity compared to TDF,
 4 making TAF safer to use than TDF.

5 101. On July 21, 2000, Gilead filed a provisional patent application which described
 6 TAF (then called GS-7340) as 2-3 times more potent than TDF while providing 10 times the
 7 intracellular concentration of tenofovir than TDF. Gilead also demonstrated that dosing with TAF
 8 resulted in dramatically higher concentrations of drug in all organs except the kidneys and the
 9 liver, compared with TDF. This suggested that TAF is uniquely able to target cells that HIV infects,
 10 while not concentrating in the kidney.

11 102. In a 2001 paper, Gilead scientists described the remarkable results achieved when
 12 studying the metabolism of TAF in blood. The paper, "Metabolism of GS-7430, A Novel Phenyl
 13 Monophosphoramidate Intracellular Prodrug of PMPA, In Blood," compared the distribution of
 14 the active drug tenofovir in blood cells and plasma after exposure to either GS-7430 or tenofovir
 15 disoproxil (which was still in clinical development at the time of the study). What Gilead found
 16 was that one need only *one thousandth of the dose* of GS-7340 compared to tenofovir to achieve
 17 the same level of inhibition of HIV replication in vitro. Gilead also found that one need to use only
 18 one tenth the dose of GS-7340 compared to TDF to reach the same levels of active tenofovir inside
 19 cells.

20 103. Gilead researchers presented the results of its GS-7340 study at a February 2002
 21 Conference on Retroviruses. John Milligan, then Gilead's Vice President of Corporate
 22 Development and currently its President and Chief Executive Officer, said that Gilead's goal with
 23 GS-7340 was to deliver a more potent version of tenofovir that can be taken in lower doses,
 24
 25
 26

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1 resulting in better antiviral activity and fewer side effects. Milligan said that "there's a great need
 2 to improve therapy for HIV patients."¹⁸

3 104. Gilead's preclinical studies of TAF also indicated that TAF is less likely to
 4 accumulate in renal proximal tubules than TDF, supporting the potential for an improved renal
 5 safety profile.

6 105. Gilead's 2001 10-K highlighted the benefits of GS-7340 over Viread: "Both GS
 7 7340 and Viread are processed in the body to yield the same active chemical, tenofovir, within
 8 cells. However, the chemical composition of GS 7340 may allow it to cross cell membranes more
 9 easily than Viread, so that with GS 7340, tenofovir may be present at much higher levels within
 10 cells. As a result, GS 7340 may have greater potency than Viread and may inhibit low-level HIV
 11 replication in cells that are otherwise difficult to reach with reverse transcriptase inhibitors."¹⁹

12 106. At the end of the first quarter of 2002, Gilead told investors that it had initiated
 13 Phase I/II testing of GS-7340. In an earnings call, Gilead stated that it had initiated a dose
 14 escalation study for GS-7340 through which Gilead intended to prove that GS-7340 was more
 15 potent than Viread, meaning that it could be administered at a safer, lower dose.

16 107. In an October 28, 2003 earnings call, Gilead told analysts that data from the
 17 ongoing Phase I/II study of GS-7340 "look[ed] promising."²⁰

18 108. In December 2003, Mark Perry, then Gilead's Executive Vice President of
 19 Operations, told investors that Gilead was "excited" about GS-7340. Gilead expected GS-7340 to
 20 achieve "more potency at lower doses and increase the therapeutic index for" tenofovir.²¹ The

21
 22 ¹⁸ Special Coverage: 9th Conference on Retroviruses – New drugs, new data hold promise for
 next decade of HIV treatment, AIDS Alert, May 1, 2002.

23 ¹⁹ Gilead Sciences, Inc. Form 10-K for the fiscal year ended December 31, 2001, at 13, available
 at <https://www.sec.gov/Archives/edgar/data/882095/000091205702011690/a2073842z10-k.htm>.

24 ²⁰ Event Brief of Q3 2003 Gilead Sciences Earnings Conference Call – Final, FD (Fair
 Disclosure) Wire, Oct. 28, 2003.

25 ²¹ Gilead Sciences at Harris Nesbitt Gerard Healthcare Conference 2003 – Final, FD (Fair
 Disclosure) Wire, Dec. 11, 2003.

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1 "therapeutic index" is a comparison of the amount of a therapeutic agent that causes the therapeutic
 2 effect compared to the amount that causes toxicity.

3 109. In January 2004, Gilead repeatedly referred to the positive results from clinical
 4 studies of GS-7340 in calls with analysts and disclosures to the investment industry. On a January
 5 29, 2004 earnings call, Gilead stated that, based on these positive results, it was designing a Phase
 6 II program for GS-7340 to determine the safety and efficacy of the compound in treatment naïve
 7 patients and in highly treatment experienced patients.

8 110. At a May 2004 Deutsche Bank Securities Healthcare Conference, Gilead said that
 9 it knew GS-7340 could be dosed at a fraction of the Viread dose and give a greater antiviral
 10 response.

11 111. However, on October 21, 2004, shortly after the FDA approved Truvada, Gilead
 12 abruptly announced that it would abandon its GS-7340 design. It stated:

13 Earlier this year as a result of positive data from a small phase I/II
 14 study of GS 7340, we began designing a phase II program to
 15 determine the safety and efficacy of the compound in treatment-
 16 naïve patients and in highly treatment experienced patients. Since
 17 that time we have witnessed the increasing use of Viread across all
 18 HIV patient populations, and we have also received approval for and
 19 launched Truvada.

20 Based on our internal business review and ongoing review of the
 21 scientific data for GS 7340, we came to the conclusion that it would
 22 be unlikely that GS 7340 would emerge as a product that could be
 23 highly differentiated from Viread.²²

24 112. Prior to its October 2004 announcement, Gilead never indicated that there might be
 25 an issue with differentiating GS-7340 from Viread or expressed any other negative view of the
 26 prospects of GS-7340. To the contrary, Gilead repeatedly touted the positive results of preclinical
 27 and clinical studies of GS-7340 and the benefits of GS-7340 over Viread.

22 <https://www.gilead.com/news/press-releases/2004/10/gilead-discontinues-development-of-gs-9005-and-gs-7340-company-continues-commitment-to-research-efforts-in-hiv>.

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1 113. Gilead's "internal business review" was the real driver of its decision to abandon a
 2 design it knew to be safer than Viread.

3 114. In May 2005, despite Gilead's misrepresentation that GS-7340 was not worth
 4 pursuing, Gilead scientists reported the favorable results they achieved with GS-7340, including
 5 its benefits over Viread, in an issue of *Antimicrobial Agents and Chemotherapy*. Reuters Health
 6 News covered the article:

7 After oral administration of GS 7340 to dogs, tenofovir
 8 concentrations were 5- to 15-fold higher in lymph nodes than after
 9 tenofovir DF administration, the researchers note. Except for kidney
 and liver, tissue concentrations of tenofovir were generally higher
 after GS 7340 than after tenofovir DF administration.

10 115. "The high concentrations of tenofovir observed in lymphatic tissues
 11 after oral administration of GS 7340 are expected to result in
 12 increased clinical potency relative to tenofovir DF and could have a
 13 profound effect on the low-level virus replication that occurs in
 tissues with suboptimal drug exposure during HAART," the authors
 conclude.

14 116. "With GS 7340," the researchers add, "it should be possible to
 15 reduce the total dose of tenofovir, thereby minimizing systemic
 16 exposure, while at the same time increasing antiviral activity."²³

17 115. Moreover, even though Gilead purportedly abandoned TAF, Gilead filed seven
 18 applications for patents on TAF between 2004 and 2005.

19 116. Despite recognizing the safety benefits of TAF, Gilead kept its GS-7340 design on
 20 the shelf for years—knowingly exposing patients taking its TDF-containing drug products to
 21 greater risks of kidney and bone toxicity.

22 117. It was not until approximately October 2010—*six years* after Gilead shelved its
 23 safer tenofovir prodrug and after Gilead designed combination products Truvada and Atripla to
 24 contain TDF rather than safer TAF—that Gilead renewed development of the safer TAF design.

25 23 Novel tenofovir prodrug preferentially targets lymphatic tissue, Reuters Health Medical
 26 News, June 1, 2005.

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1 118. Once Gilead renewed development of its TAF design, it again touted the benefits
 2 of TAF over TDF—as if it had never falsely claimed that TAF could not be “highly differentiated”
 3 from TDF.

4 119. Despite having discovered the benefits of TAF before 2001, Gilead repeatedly
 5 misrepresented TAF as “new.” The benefits of TAF that Gilead described in 2010 and beyond
 6 were known to Gilead years earlier. And the clinical results Gilead achieved with TAF would have
 7 been achieved years earlier but for Gilead’s decision to slow-walk and withhold the safer TAF
 8 design purely for financial gain.

9 120. In an October 19, 2010 earnings call, Gilead’s Chief Scientific Officer Norbert
 10 Bischofberger explained to investors how GS-7340’s safety profile was superior to Viread,
 11 particularly with respect to kidney and bone toxicity:

12 7340 is a prodrug that actually delivers more active antivirally active
 13 components into the compartment in the body where it’s really
 14 needed which means lymphocytes mostly. What that means is you
 15 can take a lower dose, and actually our clinical study would indicate
 16 1/6th to 1/10th the Viread dose and you would actually get higher
 17 efficacy with less exposure. So we’re looking at this to be used in
 sub population where people have a concern with Viread, and the
 one with renal impairment, elderly people that have reduced renal
 function, and the other population will be adults that have
 preexisting or suspicion of bone disease, osteoporosis, and that’s
 where we are initially going to position the compound.²⁴

18 121. Giving a statement at the Capital Markets Healthcare Conference on March 2, 2011,
 19 John Milligan, then Gilead’s President and Chief Operating Officer, told investors the real reason
 20 Gilead previously refused to design its products to contain safer GS-7340—it did not want to hurt
 21 TDF sales by stepping on its TDF marketing message:

22 One of the reasons why we were concerned about developing 7340
 23 was we were trying to launch Truvada versus Epzicom²⁵ at that time.

24 ²⁴ Q3 2010 Gilead Sciences Earnings Conference Call – Final, FD (Fair Disclosure) Wire,
 Oct. 19, 2010.

25 ²⁵ Epzicom is a combination medication, containing abacavir and lamivudine, indicated to treat
 HIV sold by Gilead’s competitor GlaxoSmithKline, now Viiv Healthcare, Ltd. The FDA approved
 both Epzicom and Truvada in August 2004.

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1 And to have our own study suggesting that Viread wasn't the safest
 2 thing on the market, which it certainly was at the time. ... It didn't
 3 seem like the best. It seemed like we would have a mix[ed] message.
 4 And in fact that Viread story is split out to be a fairly safe product
 5 over the years. There are some concerns still on kidney toxicity and
 6 there are some concerns about bone toxicity.²⁶

7 122. Milligan called GS-7340 a "kinder, gentler version of Viread."²⁷

8 123. At the March 14, 2011 Roth Capital Partners Growth Stock Conference, Gilead
 9 stated that the ability to dose GS-7340—the "kinder, gentler" version of Viread—lower than
 10 Viread was important because GS-7340 is safer, particularly as patients take the medication for
 11 the long term.²⁸

12 124. At the NASDAQ OMS 26th Investor Program in June 2011, Gilead described GS-
 13 7340 as a "very exciting product" which was then in dosing studies to determine just how low GS-
 14 7340 could be dosed. Gilead explained the benefit of lower dosing to aging patients and those who
 15 have been on the medication for a long time:

16 And we had recently this year had presented 14-day monotherapy
 17 results from a study we had done at 50 and 100 mg of 7340 versus
 18 the 300 mg of Viread today. And what we have shown was viral
 19 load reductions were greater in the lower doses of 7340 and the
 20 plasma tenofovir levels were actually much reduced from what we
 21 see with Viread.

22 We're currently now in a Phase Ib looking at even lower doses. We
 23 are studying 8 mg, 25 and 40 mg of GS-7340. This is important
 24 because as the age of the AIDS population continues to increase, as
 25 the median age is now just about 50 years old, you get issues with
 26 aging such as renal function and bone mineral density that can
 27 become bigger issues for these patients and we think that it's a
 28 currently unmet medical need to address those concerns of the aging
 29 population in HIV.²⁹

26 ²⁶ Gilead Sciences at RBC Capital Markets Healthcare Conference – Final, FD (Fair Disclosure) Wire, Mar. 2, 2011.

27 ²⁷ *Id.*

28 ²⁸ Gilead Sciences at Roth Capital Partners OC Growth Stock Conference – Final, FD (Fair Disclosure) Wire, Mar. 14, 2011.

29 ²⁹ Gilead Sciences Inc. at NASDAQ OMS 26th Investor Program – Final, FD (Fair Disclosure) Wire, June 21, 2011.

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1 125. Yet, Gilead knew well before 2010–2011 that people with HIV were living longer
 2 lives. Since the introduction of effective combination antiretroviral therapy in late 1995 and early
 3 1996, many people with HIV have lived a normal lifespan.

4 126. On January 24, 2012, Gilead announced that it had begun Phase II clinical trials of
 5 GS-7340 and identified a dose that is ten times lower than Viread while providing greater antiviral
 6 efficacy.

7 127. On October 31, 2012, Gilead announced that a Phase II clinical trial evaluating TAF
 8 met its primary objective. The study compared a once-daily single tablet regimen containing TAF
 9 10 mg/elvitegravir 150 mg/cobicistat 150 mg/emtricitabine 200 mg with Stribild (TDF 300
 10 mg/elvitegravir 150 mg/cobicistat 150 mg/emtricitabine 200 mg) among treatment-naïve adults.
 11 Compared to Stribild, the TAF-containing regimen demonstrated better markers of bone and
 12 kidney effects that were statistically significant. The study showed that TAF is effective at a
 13 fraction of the dose of Viread and provides safety advantages.

14 128. In January 2013, Gilead began Phase III clinical development of TAF. Announcing
 15 the beginning of Phase III development, then-CEO Martin mischaracterized TAF as “new.”³⁰

16 129. Gilead finally submitted an application to market its first TAF-containing product,
 17 Genvoya, to the FDA on November 5, 2014 (though it could have done so years earlier had it not
 18 shelved the safer design to make more money).

19 130. When the FDA approved Genvoya on November 5, 2015, John C. Martin, then
 20 Chairman and CEO of Gilead, announced that “there is still a need for new treatment options that
 21 may help improve the health of people as they grow older with the disease.”³¹ Martin
 22 misrepresented that TAF was “new” and concealed that Gilead had known about this safer version
 23

24

³⁰ Gilead Sciences at JPMorgan Global Healthcare Conference – Final, FD (Fair Disclosure)
 25 Wire, Jan. 7, 2013.

26 ³¹ US FDA approves Gilead’s Single Table Regiment Genvoya for Treatment of HIV-1
 Infection. Business Wire, Nov. 5, 2015.

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1 of tenofovir for over a decade but purposefully withheld it from the market solely to protect its
 2 monopoly profits and extend Gilead's ability to profit on TAF regimens for the next decade or
 3 more.

4 **F. Gilead withheld its safer TAF design to protect its TDF sales and extend profits on
 its HIV franchise.**

5 131. Gilead first developed and sought FDA approval for its TDF line of products even
 6 though it knew TAF was safer.

7 132. Then Gilead shelved its TAF design in 2004 because it did not want to hurt TDF
 8 sales by admitting that TDF is unreasonably and unnecessarily unsafe.

9 133. Gilead continued to withhold its TAF design for the next decade. Gilead knew that
 10 by withholding the safer TAF design, it could extend the longevity of its HIV drug franchise and
 11 make billions two times over: first, with TDF medications until TDF patent expiration, which
 12 would begin by no later than 2018, and second, with TAF medications until TAF patent expiration
 13 as late as 2032.

14 134. But Gilead also knew that timing was key. While it wanted to delay the TAF-
 15 designed products to maximize profits on its TDF Drugs, it also knew that it had to get its TAF-
 16 based products on the market sufficiently in advance of TDF patent expiration. Gilead knew that
 17 once doctors switched their patients from TDF to TAF, doctors would be highly unlikely to switch
 18 their patients back to TDF-based regimens once generic TDF became available. By converting
 19 TDF prescriptions to TAF prescriptions (which cannot be automatically substituted at the
 20 pharmacy counter with a generic TDF product), Gilead could save a substantial percentage of sales
 21 from going generic.

22 135. Only once Gilead had realized billions in sales through most of the TDF patent
 23 life—having built Viread sales up to \$1.1 billion and the TDF portfolio up to \$11 billion in sales
 24 in 2015—did Gilead create TAF-based versions of its prior TDF Drugs and work to convert its
 25 TDF Drug sales to TAF drug sales.

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1 136. Once TAF entered the market, Gilead successfully convinced a large percentage of
 2 doctors to switch from TDF-based to TAF-based regimens by highlighting TAF's improved safety
 3 profile with respect to bone and kidney toxicity—the very benefits that Gilead could have and
 4 should have incorporated into its product design from the beginning but withheld from patients
 5 with each successive TDF Drug for over a decade.

6 137. In addition, by delaying the filing of an NDA for its first TAF product, for which it
 7 received five-year regulatory exclusivity, Gilead knew that it was also delaying the entry of any
 8 generic manufacturer who could successfully challenge Gilead's TAF patents as invalid or not
 9 infringed. Due to its regulatory exclusivity, no generic manufacturer can even file an ANDA with
 10 a Paragraph IV certification seeking to market a generic version of Genvoya until November 2019
 11 and then, upon Gilead's suit against the generic, Gilead can automatically delay generic entry by
 12 up to an additional 30 months.

13 138. Gilead boasted about TAF's potential to extend its HIV franchise, which has been
 14 the core of its business.

15 139. Milligan told investment analysts in 2010 that the safer TAF-designed products
 16 could replace the whole TDF franchise which would provide a "great deal of longevity. ..." ³²
 17 Milligan similarly told investors at a Deutsche Bank Securities Inc. Healthcare Conference in May
 18 2011 that TAF was a "new" drug that "could potentially bring quite a bit of longevity to the Gilead
 19 portfolio." ³³

20 140. As Milligan told analysts at a Goldman Sachs Global Healthcare Conference in
 21 June 2011, Gilead would be "offering a product called 7340, which we believe is a lower dose,
 22 better safety profile, more potent, differentiated drug relative to Viread. And so, our ability to
 23

24 ³² Gilead Sciences at 22nd Annual Piper Jaffray Healthcare Conference – Final, FD (Fair
 25 Disclosure) Wire, Nov. 30, 2010.

26 ³³ Gilead Sciences Inc. at Deutsche Bank Securities Inc. Health Care Conference – Final, FD
 (Fair Disclosure) Wire, May 3, 2011.

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1 develop and get that onto the market prior to [TDF] patent expiration will be key to us, to maintain
 2 the longevity.”³⁴

3 141. Gilead withheld its safer TAF design until it suited Gilead’s bottom line at the
 4 expense of patients’ health.

5 **G. Gilead knowingly designed its TDF drugs to be unreasonably dangerous and unsafe**
 6 **to patients’ kidneys and bones.**

7 142. Despite knowing that TDF causes kidney and bone damage and that TAF is safer
 8 for patients’ kidneys and bones, Gilead designed the TDF Drugs to contain TDF rather than safer
 9 TAF as the orally available version of tenofovir.

10 143. In addition to withholding the safer TAF design of Stribild, Gilead made Stribild
 11 even more dangerous to patients when it formulated the drug to include 300 mg TDF with
 12 cobicistat.

13 144. Stribild is a fixed dose combination containing 300 mg TDF, emtricitabine,
 14 elvitegravir, and cobicistat. Elvitegravir is an integrase strand transfer inhibitor (INSTI). Cobicistat
 15 has no antiretroviral effect; it is a pharmacoenhancer that increases the plasma concentrations of
 16 elvitegravir. Regimens that include a pharmacoenhancer like cobicistat are called “boosted”
 17 regimens.

18 145. Gilead’s early development of elvitegravir used ritovanir as the boosting agent.
 19 Gilead knew before Viread entered the market in 2001 that coadministration of TDF with
 20 ritovanir-boosted lopinavir significantly increased tenofovir concentrations. By 2004, the Viread
 21 label warned doctors to carefully monitor patients taking both TDF and ritonavir/lopinavir. And
 22 scientific literature published years before Gilead developed Stribild indicated that renal toxicity
 23 associated with TDF was more frequent in patients receiving TDF in combination with boosted
 24 protease inhibitors.

25

 26 ³⁴ Gilead Sciences Inc. at Goldman Sachs Global Healthcare Conference – Final, FD (Fair Disclosure) Wire, June 7, 2011.

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1 146. Although Gilead ultimately replaced ritonavir with cobicistat as the boosting agent
 2 in Stribild, the two boosters are structurally similar. Gilead learned during development of Stribild
 3 that tenofovir levels in patients receiving Stribild (TDF with cobicistat) were similar to the
 4 tenofovir levels experienced in patients who took TDF in combination with a ritonavir-boosted
 5 protease inhibitor. Gilead knew that tenofovir levels are 25–35% higher when combining TDF in
 6 a boosted regimen.

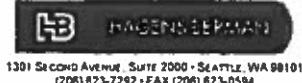
7 147. Despite knowing that combining TDF with cobicistat would significantly increase
 8 tenofovir levels in patients' blood, Gilead did not reduce the dose of TDF when it formulated
 9 Stribild. Gilead's Stribild clinical trials showed an increased rate of serious renal adverse events
 10 that led to treatment discontinuation. Stribild is even more toxic to patients' kidneys and bones
 11 than unboosted TDF.

12 148. When Gilead formulated its first TAF-based drug, Genvoya—which was Stribild
 13 with TAF in place of TDF—Gilead reduced the dose of TAF to account for the fact that cobicistat
 14 increases tenofovir concentrations. A Phase I TAF dosing trial showed that TAF 25 mg was the
 15 optimal dose to achieve activity similar to a 300 mg dose of TDF. When formulating Genvoya,
 16 however, Gilead further reduced the TAF dose to 10 mg because, when given with cobicistat, TAF
 17 10 mg achieves exposure similar to TAF 25 mg when given without cobicistat.

18 149. Gilead knew to reduce the dose of TAF to 10 mg when given with cobicistat before
 19 Gilead sought FDA approval for Stribild. Pursuant to Gilead's Phase I study GS-US-311-0101,
 20 conducted between June 6, 2011 and August 31, 2011, Gilead determined that co-administration
 21 of TAF with cobicistat significantly increased the body's exposure to TAF and active tenofovir. It
 22 found that the body's drug exposure across time (known as the "area under the curve" in
 23 pharmacokinetic parlance) increased 2.7-fold with respect to TAF and 3.3-fold with respect to
 24 tenofovir when given with cobicistat. Gilead addressed this drug interaction by reducing the dose
 25 of TAF from 25 mg to 10 mg in the Genvoya tablet. When Gilead began its study GS-US-292-
 26 0103 on October 5, 2011, it used a TAF dose of 10 mg in the Genvoya combination because "the

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1 TAF dose is 10 mg when combined with COBI in the [fixed dose combination] versus 25 mg when
 2 not combined with COBI.”³⁵

3 150. Critically, Gilead reduced the TAF dose when formulating Genvoya even though
 4 patients’ plasma exposure to tenofovir when taking TAF is already significantly less than their
 5 tenofovir exposure when taking TDF due to TAF’s enhanced entry and absorption into target cells.

6 151. Moreover, in July 2011, months before Gilead submitted its Stribild NDA to the
 7 FDA, Gilead sought FDA approval of reduced doses of TDF (Viread) in 150 mg, 200 mg, and 250
 8 mg strengths for the treatment of HIV-1 infection in pediatric patients ages 2-12. That same month,
 9 Gilead also sought approval of Viread 40 mg oral powder for the treatment of HIV-1 infection in
 10 pediatric patients 2 years and older.³⁶ The FDA approved the lower dosage strength TDF tablets
 11 and oral powder in early January 2012—over six months before the FDA approved the Stribild
 12 NDA. There was no reason Gilead could not have similarly reduced the dose of TDF in Stribild—
 13 when it knew that failing to reduce the dose would increase the drug’s toxicity.

14 152. As a direct result of Gilead’s decision not to use a safer design, Stribild proved to
 15 be toxic to patients’ kidneys and bones.

16 153. In the clinical trials of Stribild over 48 weeks, eight patients in the Stribild group
 17 compared to one in the comparator groups discontinued the drug study due to renal adverse events,
 18 including kidney failure and Fanconi Syndrome. Four of these patients developed laboratory
 19 findings consistent with proximal renal tubular dysfunction. The laboratory findings in these four
 20 subjects improved but did not completely resolve upon discontinuation of Stribild. The signature
 21 toxicity of the Stribild group was proximal renal tubular dysfunction.

22
 23
 24 ³⁵ FDA Center for Drug Evaluation and Research, Genvoya NDA 207561 Clinical
 25 Pharmacology and Biopharmaceutics Review(s) at 32, available at https://www.accessdata.fda.gov/drugsatfda_docs/nda/2015/207561Orig1s000ClinPharmR.pdf.

26 ³⁶ In the EU, Gilead recommends that adults with creatinine clearance below 50 mL/min take
 Viread oral powder to reduce their doses of TDF.

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1 154. The FDA's Medical Review described the notable adverse events that led to study
 2 discontinuation more frequently in the Stribild group as a "constellation of renal [Adverse Events]
 3 (e.g. renal failure, Fanconi syndrome, and increased blood creatinine)."³⁷

4 155. According to the FDA, the "most important safety risks of Stribild use are
 5 associated with two key toxicities: renal adverse events (particularly proximal renal tubular
 6 dysfunction) and bone toxicity. Both of these events have previously been associated with use of
 7 TDF"³⁸

8 156. The FDA noted that "published literature suggests that the renal toxicity associated
 9 with TDF may be more frequent in patients receiving TDF in combination with PIs, including
 10 ritonavir,"³⁹ and the "review team remains concerned that COBI may exacerbate the known renal
 11 toxicity associated with TDF."⁴⁰ In its Summary Review of the Stribild NDA, the FDA concluded:
 12 "it appears that the combination of COBI with TDF may have more renal toxicity than TDF alone
 13 as highlighted in the clinical reviews and the renal consult."⁴¹ The FDA expressed concern that the
 14 data reviewed for the Stribild NDA represented an increased hazard signal even compared to
 15 regimens containing TDF combined with another boosting agent.

16 157. Due to Stribild's renal toxicity, Stribild use is restricted in patients with impaired
 17 renal function. Stribild's label states that doctors should not initiate Stribild in patients with
 18 estimated creatinine clearance below 70 mL per minute, and Stribild should be discontinued if
 19

20 ³⁷ FDA Center for Drug Evaluation and Research Stribild NDA 203100 Medical Review at
 9, available at https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000MedR.pdf.

22 ³⁸ FDA Center for Drug Evaluation and Research Stribild NDA 203100 Cross Discipline Team
 Member Review at 17, available at https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000CrossR.pdf.

24 ³⁹ *Id.* at 18.

25 ⁴⁰ *Id.*

26 ⁴¹ FDA Center for Drug Evaluation and Research Stribild NDA 203100 Summary Review at
 16, available at https://www.accessdata.fda.gov/drugsatfda_docs/nda/2012/203100Orig1s000SumR.pdf.

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1 estimated creatinine clearance declines below 50 mL per minute as dose interval adjustment cannot
 2 be achieved. Moreover, in the EU—though not in the U.S. —Gilead warns doctors that Stribild
 3 should not be initiated in patients with creatinine clearance below 90 mL per minute unless, after
 4 review of all available treatment options, it is considered that Stribild is the preferred treatment for
 5 the individual patient.

6 158. Gilead's post-approval Stribild data continued to show renal adverse effects. In the
 7 clinical trials of Stribild over 96 weeks, two additional Stribild patients discontinued the study due
 8 to a renal adverse reaction. In the clinical trials of Stribild over 144 weeks, three additional Stribild
 9 patients discontinued the study due to a renal adverse reaction. In addition, one patient who
 10 received ritonavir-boosted atazanavir plus Truvada (i.e., a boosted TDF regimen) in the
 11 comparator group developed laboratory findings consistent with proximal renal tubular
 12 dysfunction leading to drug discontinuation after week 96.

13 **H. Gilead obtained FDA approval for its TAF-based products by relying on studies
 14 demonstrating TAF's superiority over TDF.**

15 159. In seeking FDA approval of its first TAF-based antiviral drug product, Genvoya,
 16 Gilead told the FDA that TAF has better entry and concentration in HIV-target cells than TDF,
 17 thereby allowing the administration of smaller doses and reducing systemic tenofovir exposure,
 18 renal toxicity and bone effects, without sacrificing efficacy.

19 160. Gilead established during Phase I clinical development of TAF that doses as low as
 20 8 to 25 mg of TAF had antiviral activity comparable to the approved dose of TDF 300 mg. Gilead
 21 selected the 25 mg TAF dose as the optimal dose for Phase 2 and 3 studies based on its antiviral
 22 activity. Gilead included TAF 10 mg in Genvoya because it provides similar exposures to TAF 25
 23 mg when coadministered with cobicistat.

24 161. Gilead supported the safety and efficacy of Genvoya with two clinical trials that
 25 compared Genvoya to its TDF-containing counterpart, Stribild. In those studies, a 10 mg oral dose
 26 of TAF in Genvoya resulted in greater than 90% lower concentrations of active tenofovir in plasma

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1 as compared to a 300 mg oral dose of TDF in Stribild. Due to these lower plasma concentrations,
 2 Gilead expected that the kidney and bone toxicities associated with TDF would occur at a lower
 3 rate with TAF. And, as expected, the trials showed that rates of biomarkers for tenofovir-induced
 4 renal and bone toxicities were less with Genvoya than Stribild.

5 162. In seeking FDA approval of Genvoya in 2014, Gilead relied on TAF data obtained
 6 by Gilead more than a decade earlier—before the company abruptly shelved its TAF design in
 7 pursuit of more money. Gilead submitted in its Genvoya NDA data from: (a) early clinical
 8 development showing that TAF provided greater intracellular distribution of tenofovir yielding
 9 lower plasma tenofovir levels than TDF; (b) preclinical studies that indicated TAF is less likely to
 10 accumulate in renal proximal tubules, supporting the potential for an improved renal safety profile;
 11 and (c) Phase I dosing studies supporting doses of TAF far lower than the standard 300 mg dose
 12 of TDF.

13 163. Reviewing these studies, the FDA stated that: “Based on the design of the pivotal
 14 clinical trials, safety can be directly compared between TAF (Genvoya) and TDF (as Stribild) in
 15 subjects initiating treatment.”⁴² According to the FDA, the studies showed that “the rates of
 16 signature TFV [tenofovir] toxicities related to bone mineral density and renal laboratory
 17 parameters were lower [than TDF], likely due to the fact that the TAF prodrug yields lower plasma
 18 concentrations of TFV.”⁴³

19 164. As a result of its improved renal safety profile over TDF, Gilead’s TAF-containing
 20 products are better tolerated by patients with renal impairment.

21 165. For example, Genvoya requires no dosage adjustment for patients with creatinine
 22 clearance greater than or equal to 30 mL per minute, whereas its TDF-containing counterpart
 23

24

⁴² FDA Center for Drug Evaluation and Research Genvoya NDA 207561 Summary Review at
 25 10, available at https://www.accessdata.fda.gov/drugsatfda_docs/nda/2015/207561Orig1s000SumR.pdf.

26 ⁴³ *Id.* at 15.

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1 Stribild is not recommended for patients with creatinine clearance below 70 mL per minute and
 2 Stribild should be discontinued if creatinine clearance falls below 50 mL per minute as dose
 3 interval adjustment cannot be achieved. Due to its superior safety profile, Genvoya has an
 4 expanded indication for renally impaired individuals with creatinine clearance greater than or
 5 equal to 30 mL per minute.

6 166. As a result of its improved bone toxicity safety profile over TDF, the labels for
 7 Gilead's TAF-containing products no longer include bone effects in the Warnings and Precautions
 8 sections of those labels.

9 167. The FDA agreed that bone effects need only be displayed in the Adverse Events
 10 section of TAF drug labeling because “[w]ith respect to bone toxicity, TAF appears to have
 11 substantially less of an adverse effect on bone mineral density (BMD) than TDF.”⁴⁴

12 168. Gilead removed bone toxicity from the Warnings and Precautions sections of the
 13 Genvoya label in December 2016 and from the Odefsey and Descovy labels in 2017. Bone toxicity
 14 remains in the Warnings and Precautions sections of the labels of Gilead's TDF Drugs to this day.

15 I. Gilead markets TAF as superior to TDF.

16 169. Gilead's TAF-based product websites, including the Genvoya site, market the TAF-
 17 based drugs as superior to Gilead's TDF-containing products with respect to kidney health. Gilead
 18 recognizes that: “Kidneys play a key role in keeping you healthy, working around the clock to
 19 remove waste from your blood. That's why it's so important to take care of them, especially if you
 20 have HIV-1.”⁴⁵ Gilead states that the TAF-based products have “less impact on kidney lab tests”
 21 than other approved HIV-1 treatments, including Stribild, Atripla, and Truvada. The website also
 22 highlights that unlike its TDF products, the TAF-based products are “FDA-approved for people

23
 24 ⁴⁴ FDA Center for Drug Evaluation and Research Vemlidy NDA 208464 Summary Review at
 25 5, available at https://www.accessdata.fda.gov/drugsatfda_docs/nda/2016/208464Orig1s000SumR.pdf.

26 ⁴⁵ See <https://www.genvoya.com/hiv-kidney-bone-health>.

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1 with mild-to-moderate kidney problems and can be used in some people with lowered kidney
 2 function without changing the dose.”⁴⁶

3 170. Gilead’s TAF-based product websites, including the Genvoya site, market the TAF-
 4 based drugs as superior to Gilead’s TDF-containing products with respect to bone health. Gilead
 5 recognizes that: “Because HIV-1 medicines may impact your bones, it’s important to protect your
 6 bone health. If you’re under 30 years of age, you’re still developing bone mass. If you’re over 30,
 7 your bones have fully developed and it’s important to try to maintain them.”⁴⁷ The site touts
 8 clinical studies which demonstrate that the TAF-containing products “had less impact on hip and
 9 lower spine bone mineral density than the other approved HIV-1 treatments,” including Stribild,
 10 Atripla, and Truvada.⁴⁸

11 171. Gilead also touts TAF as safer than TDF to scientists, clinical investigators, and
 12 doctors attending the annual Conference on Retroviruses and Opportunistic Infections (“CROI”).

13 172. In 2015, Gilead scientists presented to CROI attendees data evaluating the safety
 14 and efficacy of Genvoya in patients with mild to moderate renal impairment. Gilead stated that
 15 “TDF has been associated with clinically significant renal and bone toxicity,” and “[r]elative to
 16 TDF 300 mg, TAF at an equivalent dose of 25 mg has 90% lower circulating plasma TFV, while
 17 maintaining high antiviral activity.”⁴⁹ This first study of a single-tablet antiviral regimen without
 18 dose adjustment in patients with mild to moderate renal impairment demonstrated the efficacy and
 19 renal and bone safety of Genvoya in this patient population.

20 173. In 2016, Gilead scientists presented to CROI attendees data evaluating the renal
 21 safety of TAF in patients with a high risk of kidney disease. Gilead stated that TDF “has been
 22 associated with an increased risk of [chronic kidney disease]” and “[d]ue to a 91% lower

24 ⁴⁶ *Id.*

25 ⁴⁷ *Id.*

26 ⁴⁸ *Id.*

27 ⁴⁹ <http://www.croiconference.org/sites/default/files/posters-2015/795.pdf>.

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1 plasma tenofovir level, tenofovir alafenamide (TAF) relative to TDF has demonstrated a
 2 significantly better renal safety profile and no discontinuations due to renal adverse events through
 3 2 years in 2 randomized, double-blind studies ... comparing TAF to TDF”⁵⁰ With respect to
 4 high risk renal patients, Gilead concluded that “[a]ntiretroviral-naïve adults with both high and
 5 low risk for [chronic kidney disease] treated with TAF had more favorable renal outcomes
 6 compared to those treated with TDF.”⁵¹

7 174. Gilead also presented at the 2016 CROI data demonstrating that TAF is safer to
 8 kidneys than TDF in the longer-term. Showing data through 96 weeks, Gilead concluded that
 9 “[c]linically significant renal events were less frequent in patients receiving” TAF vs. TDF and
 10 these “data provide further support for the improved renal safety profile of TAF compared with
 11 TDF.”⁵²

12 175. In 2017, Gilead scientists presented to CROI attendees data showing that switching
 13 patients with low bone mineral density from a TDF-based to a TAF-based regimen results in
 14 increased BMD and a reversion from osteoporosis, leading Gilead to conclude that “[s]witching
 15 from TDF to TAF may be an important treatment strategy to increase bone mineral density in those
 16 at the highest fracture risk.”⁵³

17 176. Also in 2017, Gilead scientists presented to CROI attendees 144-week data
 18 establishing the superiority of TAF over TDF with respect to efficacy as well as kidney and bone
 19 safety. At week 144, TAF: was “superior to [TDF] on virologic efficacy,” had “significantly less
 20 impact than [TDF] on renal biomarkers,” and had “significantly less impact than [TDF] on
 21 BMD.”⁵⁴

22
 23 ⁵⁰ <http://www.croiconference.org/sites/default/files/posters-2016/681.pdf>.

24 ⁵¹ *Id.*

25 ⁵² <http://www.croiconference.org/sites/default/files/posters-2016/682.pdf>.

26 ⁵³ http://www.croiconference.org/sites/default/files/posters-2017/683_Brown.pdf.

⁵⁴ http://www.croiconference.org/sites/default/files/posters-2017/453_Arribas.pdf.

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1 177. In 2018, Gilead scientists presented to CROI attendees 96-week data that showed
 2 that switching to a TAF-based regimen resulted in “significant increases in bone mineral density
 3 at hip and spine” and “improved biomarkers of renal tubular function.”⁵⁵

4 178. Gilead’s sales force has used data showing the superior safety profile of TAF over
 5 TDF to convince doctors to switch patients from TDF-based to TAF-based products.

6 179. Gilead President and COO Milligan told analysts during a November 10, 2015
 7 Credit Suisse Healthcare Conference that he expected Gilead’s sales representatives to be
 8 successful in switching the market from TDF to Genvoya based on favorable data showing the
 9 benefits of TAF over TDF. Milligan viewed switching patients from Stribild to Genvoya as “the
 10 most likely thing to happen very commonly, because it’s very seamless for the patient. You’re not
 11 really changing much; you’re just getting a better version of Stribild.”⁵⁶ Milligan also touted the
 12 benefit of switching Atripla patients, who, at that point, had a decade of TDF toxicity buildup, to
 13 Genvoya, which, he said, gives patients the benefits of TDF with a better safety profile.

14 180. In order to prevent or combat the cumulative buildup of kidney and bone toxicity
 15 associated with TDF (which Gilead itself caused by withholding the safer TAF design), Gilead’s
 16 message was: “if you’re a new patient, start with a TAF-based single-tablet regimen, because that’s
 17 going to be highly efficacious and very safe and very tolerable for long-term usage. And if you’re
 18 on a Viread-based regimen, it’s a great idea to convert, switch, upgrade to a TAF-based regimen
 19 as soon as possible.”⁵⁷

20 181. According to Milligan, Genvoya was the most successful launch ever for an HIV
 21 therapy. After six months on the market, Genvoya was the most prescribed regimen for treatment-
 22 naïve and switch patients.

23

⁵⁵ http://www.croiconference.org/sites/default/files/posters-2018/1430_Mills_504.pdf.

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⁵⁶ Gilead Sciences Inc. at Credit Suisse Healthcare Conference – Final, FD (Fair Disclosure)
 25 Wire, Nov. 10, 2015.

26

⁵⁷ Gilead Sciences Inc. at Piper Jaffray Healthcare Conference – Final, FD (Fair Disclosure)
 27 Wire, Dec. 1, 2015.

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1 182. Gilead's conversion strategy continued with FDA approval of Gilead's subsequent
 2 TAF-based products. As Milligan stated in March 2016, the marketplace was moving to TAF
 3 because patients need the safest possible medication:

4 [A]s I look at TAF right now there's a very strong medical rationale
 5 for TAF versus Viread. And so what we're seeing in the marketplace
 6 with the launch of Genvoya and then with the recent approval of
 7 Odefsey is the desire to move patients from a TDF containing
 8 regimen to a TAF containing regimen ... it's very interesting that
 9 the field wants to move to the safest medication, I think should move
 10 to the safest medication because it's a great opportunity for patients
 11 to stay on care for another 10 to 20 years which is really where we're
 12 at with most of these patients. They're going to need decades more
 13 care and so you need the gentlest, safest option for patients....⁵⁸

14 183. Gilead's 2017 Annual Report attributes strong growth in its HIV business to
 15 "widespread physician acceptance and uptake" of the TAF-based regimens.⁵⁹

16 184. In January 2018, Milligan stated that "physicians and patients prefer TAF
 17 dramatically over our TDF-containing backbones," noting that its TAF-based products had
 18 achieved more than 56% of the market share of its TDF-containing regimen.⁶⁰ TAF-based products
 19 now make up at least 74% of Gilead's TDF- and TAF-based drug products for HIV treatment.

20 185. Gilead could have and should have incorporated the benefits of TAF, which doctors
 21 and patients "prefer dramatically" over TDF, into its products years earlier.

22 186. Gilead funded a 2018 study, Baumgardner, J., *et al.*, "Modeling the impacts of
 23 restrictive formularies on patients with HIV," that highlights the damage Gilead did by
 24 withholding TAF products from the market. The authors found that a restrictive drug formulary
 25

26 ⁵⁸ Gilead Sciences Inc. at Barclays Global Healthcare Conference – Final, FD (Fair Disclosure _
 27 Wire, Mar. 15, 2016.

28 ⁵⁹ Gilead Sciences 2017 Year in Review at 7, available at <https://www.gilead.com/-/media/files/pdfs/yir-2017-pdfs/final-year-in-review-426.pdf?la=en&hash=E86C6471302682C56A548CC42342AFC4>.

29 ⁶⁰ Gilead Sciences Inc. at JPMorgan Healthcare Conference – Final, FD (Fair Disclosure) Wire,
 30 Jan. 8, 2018.

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1 design,⁶¹ which restricts access to TAF or TDF-sparing regimens (other antiviral drugs, abacavir,
 2 lamuvidine, and douletegravir), forcing more people to use TDF-containing regimens, would cause
 3 171,500 more cumulative bone and renal events and 16,500 more deaths by 2025 compared to an
 4 open formulary design which permitted patients to start on TAF. Gilead itself prevented patients
 5 from taking TAF for more than a decade—longer than the period covered by the 2018 study.
 6 Gilead likely caused even more deaths and injuries as a result of its callous decision to withhold
 7 the safer TAF drugs.

8 **J. Gilead failed to adequately warn about the risks of TDF.**

9 187. In addition to withholding a safer TAF-based design despite knowing the risk its
 10 TDF Drugs posed to patients' kidneys and bones, Gilead failed to adequately warn physicians and
 11 patients about the risks and safe use of TDF.

12 1. **Gilead failed to adequately warn doctors about the risks of TDF.**

13 188. Because tenofovir is primarily cleared out of the body by the kidneys, a patient
 14 experiences even greater exposure to tenofovir as the kidneys become impaired—causing even
 15 greater harm. As a result, early detection is key to preventing serious, potentially irreversible renal
 16 injury. Frequent monitoring for TDF-induced toxicity is also critical because patients are typically
 17 asymptomatic in the early stages. Gilead, however, downplayed the risks of TDF and the need to
 18 carefully monitor all patients in order to inflate sales.

19 189. During the first years Viread was on the market, Gilead relied on Viread sales for
 20 a significant portion of its operating income. For 2002, Viread's first full year on the market,
 21 Viread sales comprised 53% of Gilead's total product sales. In 2003, Viread accounted for 68% of
 22 Gilead's total product sales.

23 190. Gilead stated in its 2002 10-K that its operations would suffer if Viread did not
 24 maintain or increase its market acceptance. Gilead also stated that if additional safety issues were
 25

26 ⁶¹ A drug formulary is a list of an insurer's covered drugs and is designed to save money.

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1 reported for Viread, this could “significantly reduce or limit our sales and adversely affect our
 2 results of operations.”⁶² Gilead made similar statements in its 2003 and 2004 10-K filings.

3 191. To make sure that safety issues did not depress or slow the growth of Viread sales,
 4 which were crucial to Gilead’s operations, Gilead dramatically increased its sales force and
 5 marketing budget, and trained its sales representatives to deceptively represent Viread’s safety
 6 profile. At the direction of Gilead’s senior management, Gilead representatives told doctors that
 7 Viread was a “miracle drug,” “extremely safe,” and “extremely well-tolerated” with “no
 8 toxicities.” Gilead’s sales representatives did not tell doctors the facts: that Viread posed
 9 significant risks to patients’ kidneys and bones.

10 192. According to a 2009 shareholder lawsuit filed against Viread, Viread’s then-Chief
 11 Executive Officer John C. Martin frequently referred to Viread as a “miracle drug” at sales force
 12 meetings. According to a former employee, Gilead was trying to overcome the perception in the
 13 medical community that Viread was like Gilead’s previous HIV drugs and would likely cause
 14 kidney damage.

15 193. On March 14, 2002, FDA sent Gilead a Warning Letter admonishing Gilead for
 16 engaging in promotional activities that contained false and misleading statements in violation of
 17 the Federal Food, Drug and Cosmetic Act. The FDA stated that Gilead unlawfully minimized
 18 Viread’s risks, including with respect to kidney toxicity, and overstated its efficacy.

19 194. Despite this warning, Gilead continued to unlawfully promote Viread by
 20 minimizing its safety risks. During a June 2003 sales force training, Gilead instructed sales
 21 representatives to respond to anticipated physician concerns about Viread’s nephrotoxicity by
 22 downplaying that many patients taking Viread had experienced the adverse effects of kidney
 23 toxicity—some of them severe —including but not limited to renal failure, acute renal failure,
 24 Fanconi syndrome, proximal tubulopathy, increased creatinine, and acute tubular necrosis.

25
 26 ⁶² Gilead Sciences, Inc. Form 10-K for the fiscal year ended Dec. 31, 2002 at 24 available at
<https://www.sec.gov/Archives/edgar/data/882095/000104746903008695/a2105292z10-k.htm>.

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1 Gilead's sales representatives omitted this material information from their sales presentations in
 2 order to drive sales.

3 195. The FDA issued another Warning Letter to Viread on July 29, 2003, stating that
 4 Gilead's sales representatives had repeatedly omitted or minimized material facts regarding the
 5 safety profile of Viread. Among other things, the FDA required Gilead to retrain its sales force to
 6 ensure that Gilead's promotional activities complied with the Federal Food, Drug and Cosmetic
 7 Act and accompanying regulations. But Gilead had achieved its goal: rapidly increased Viread
 8 sales.

9 196. In subsequent years, Gilead continued to downplay the risks of TDF-induced
 10 toxicity when promoting its TDF Drugs to doctors by withholding information about the frequency
 11 and severity of adverse kidney and bone events; dismissing case reports of acute renal failure and
 12 other TDF-associated adverse events as purportedly unavoidable side effects of tenofovir in an
 13 otherwise "safe" drug; and failing to tell doctors to monitor patients for drug-induced toxicity using
 14 more sensitive markers of kidney function.

15 197. In addition to omitting crucial facts about the safety profile of TDF when promoting
 16 TDF to doctors, Gilead also downplayed the importance of patient monitoring in its TDF Drug
 17 labeling despite the importance of early detection of TDF-induced toxicity. The dangerous
 18 inadequacies in Gilead's drug labeling were compounded by the misleading marketing messages
 19 it gave to doctors.

20 198. From Viread's product approval on October 26, 2001, through May 20, 2007,
 21 Gilead's TDF labeling failed to warn doctors that all patients needed to be monitored for adverse
 22 kidney effects. During this time, Gilead only recommended monitoring patients taking TDF Drugs
 23 for renal adverse effects if patients were at risk for, or had a history of, renal impairment or if they
 24 were taking another nephrotoxic drug. This monitoring recommendation was woefully inadequate
 25 because, as Gilead was well aware, TDF-associated renal toxicity had harmed patients who were
 26 not at risk for, or did not have a history of, renal impairment.

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1 199. Gilead failed to include any warning about the need to monitor bone effects until
 2 October 14, 2003, and that warning was limited to patients with certain risk factors. Since then,
 3 Gilead has only suggested that doctors monitor, and only informs patients that monitoring may be
 4 necessary, for patients with certain risk factors for bone adverse effects. Gilead's inadequate
 5 kidney monitoring warnings also prevented doctors from detecting early signs of kidney damage
 6 that can lead to bone density loss.

7 200. Gilead failed to warn about the need for universal monitoring even though it knew
 8 that all patients taking TDF are at risk for renal and bone adverse effects.

9 201. Gilead failed to warn about the need for universal monitoring even after patients
 10 without preexisting risk factors experienced kidney and bone effects.

11 202. Gilead failed to warn about the need for universal renal monitoring even though
 12 patients with a certain level of renal impairment should not take its TDF products or, if TDF
 13 products are to be administered to certain renally impaired patients, the dosing interval must be
 14 adjusted. The Viread and Truvada labels require a dosing interval adjustment for patients with
 15 creatinine clearance of 30–49 mL per minute, and Atripla and Complera cannot be taken by
 16 patients with a creatinine clearance of less than 50 mL per minute. Frequent monitoring of all
 17 patients' kidney function is necessary to ensure that patients' kidneys are healthy enough to
 18 continue treatment or patients receive a needed dose interval adjustment.

19 203. Presented with signs of nephrotoxicity, physicians could have weighed further
 20 treatment options, such as increased monitoring, less frequent dosing, or drug discontinuation,
 21 before the damage manifested, worsened, or became irreversible. By failing to warn doctors to
 22 monitor all patients for TDF-associated toxicity, Gilead delayed the diagnosis of TDF-associated
 23 harm, causing or enhancing injuries that would have been prevented or lessened through early
 24 detection.

25 204. On May 21, 2007, Gilead added to the Viread label a recommendation that doctors
 26 calculate creatinine clearance (one measure of kidney function) in all patients before initiating

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1 treatment with a TDF-based product and as clinically appropriate during therapy. Gilead
 2 recommended monitoring of creatinine clearance and serum phosphorus only for patients at risk
 3 for renal impairment.⁶³

4 205. The “all patients” monitoring recommendation for Viread, Truvada, Atripla, and
 5 Complera remained inadequate because it instructed doctors to assess just one, insufficiently
 6 sensitive marker of kidney function.⁶⁴ Without using sufficiently sensitive markers of kidney
 7 function, substantial kidney injury can occur before it is measurable. As a result, the detection of
 8 TDF-induced nephrotoxicity often comes too late, resulting in kidney injury that may be
 9 irreversible. Gilead should have warned doctors to test all patients for additional markers of kidney
 10 function, such as serum phosphorus and/or urine glucose, which are more sensitive to changes in
 11 the nephron tubule, the main site of TDF damage.⁶⁵

12 206. Phosphorus is a mineral that plays an important role in many physiologic systems,
 13 including keeping bones healthy and strong. Normal working kidneys maintain balanced levels of
 14 phosphorus in the blood. Low levels of phosphorus in the blood may be indicative of impaired
 15 kidney function. Moreover, low serum phosphate is itself dangerous; low levels of phosphorus in
 16 the blood can cause a range of health problems, including serious bone and heart damage.

17
 18
 19 ⁶³ Gilead did not add similar warnings to the Truvada and Atripla labels until 2008. Complera’s
 20 label included such a warning at the time of FDA approval in 2011. And when Gilead began
 21 marketing Stribild in 2012, it warned doctors to assess some measures of kidney function in all
 22 patients but failed to warn doctors to monitor all patients for serum phosphorus. These warnings
 23 remained inadequate.

24 ⁶⁴ It was not until 2018 that Gilead strengthened the Truvada, Atripla, and Complera labels to
 25 recommend that all patients receive monitoring for serum creatinine, estimated creatinine
 26 clearance, urine glucose, and urine protein. Gilead did not make this change to the Viread label
 until December 2018, after Plaintiffs filed suit.

27 ⁶⁵ The “all patients” monitoring recommendation for Stribild upon approval was inadequate
 28 because it failed to warn doctors to measure serum phosphorus. On August 30, 2017, Gilead
 29 strengthened the Stribild label to recommend that all patients be monitored for serum creatinine,
 30 serum phosphorus, estimated creatinine clearance, urine glucose, and urine protein. But, on
 31 August 8, 2018, Gilead again weakened the Stribild label to warn doctors to monitor serum
 32 phosphorus only in patients with chronic kidney disease.

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1 207. Serum phosphorus is a more sensitive marker of nephron tubule function than
2 creatinine clearance. The nephron tubule is responsible for reabsorbing phosphorus from the
3 glomerular filtrate. When the nephron tubule is damaged, it cannot reabsorb enough phosphorus,
4 allowing the phosphorus to be excreted via urine. TDF nephrotoxicity is generally characterized
5 by tubular dysfunction that precedes a decline in glomerular filtration. Thus, by monitoring
6 patients' serum phosphorus, doctors are able to pick up more subtle changes in kidney function
7 that would otherwise go undetected. Moreover, TDF-induced bone injuries are related to the
8 wasting of minerals through the urine. This is due to dysfunction in the nephron tubule, which
9 prevents reabsorption of minerals from the glomerular filtrate. If physicians knew earlier that their
10 patients' kidneys were dysfunctional, subsequent bone injuries could be avoided.

11 208. Presented with early signs of nephrotoxicity, physicians could have weighed further
12 treatment options, such as increased monitoring or drug discontinuation, before the damage
13 manifested, worsened, or became irreversible. By failing to warn doctors to monitor additional,
14 more sensitive markers of all patients' kidney function, Gilead delayed the diagnosis of TDF-
15 associated harm, causing or enhancing patients' injuries that would have been prevented or
16 lessened through early detection.

17 209. Gilead's "all patients" monitoring recommendation for its TDF Drugs also remains
18 inadequate because it fails to instruct doctors how frequently doctors should assess patients' kidney
19 function. By the time a doctor assesses a patient's kidney function when "clinically appropriate,"
20 the patient is likely to have already experienced adverse toxic effects, some of which might be
21 irreversible. Regularly scheduled, frequent monitoring of kidney function is necessary to catch
22 early signs of TDF-induced toxicity and prevent injury because patients are generally
23 asymptomatic during the early stages.

24 210. Moreover, after May 21, 2007, the TDF labels do not disclose that adverse kidney
25 and bone events occurred in patients without preexisting risk factors—which, combined with the
26 warning to only routinely monitor patients at risk—gives the false impression that TDF is only

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1 harmful to people otherwise at risk for kidney and bone injuries. By failing to warn doctors as to
 2 the frequency of monitoring, Gilead delayed the diagnosis of TDF-associated harm, causing or
 3 enhancing injuries that could have been prevented or lessened through early detection.

4 211. Gilead's monitoring instructions for at risk patients taking Viread, Truvada,
 5 Atripla, and Complera, and patients taking Stribild are also inadequate because they fail to
 6 recommend a specific, frequent monitoring schedule for doctors to assess patients' kidney
 7 function.

8 212. Gilead's warnings about the need to monitor patients for the renal effects of TDF
 9 in the U.S. are far weaker than those given by Gilead to physicians and patients in the European
 10 Union. From the approval of the first TDF product in the EU, Gilead's European labeling (known
 11 there as the Summary of Product Characteristics or "SmPC") has recommended that doctors in the
 12 EU routinely monitor, on a specific schedule, all patients taking TDF Drugs for adverse renal
 13 effects. In addition, Gilead's "all patient" monitoring instruction in the EU is not limited to testing
 14 only for creatinine clearance. In its EU labeling, Gilead recommends that doctors also monitor all
 15 TDF Drug patients' serum phosphorus levels on the specified, frequent schedule.

16 213. Gilead's renal monitoring instructions for Viread upon approval in the U.S. and the
 17 EU looked like this—with Gilead warning EU physicians to monitor all patients' serum creatinine
 18 and serum phosphate at baseline and every four weeks, while it told U.S. doctors to consider
 19 monitoring only patients at risk, with no recommended frequency:

Viread U.S. Label 10/26/01	Viread EU Label 02/07/2002
21 Although tenofovir-associated renal toxicity 22 has not be observed in pooled clinical studies 23 for up to one year, long term renal effects are 24 unknown. <u>Consideration should be given to</u> <u>monitoring for changes in serum creatinine</u> <u>and serum phosphorus in patients at risk or</u> <u>with a history of renal dysfunction.</u>	Although no significant nephrotoxicity has been observed in clinical trials ... the monitoring of renal function is recommended since nephrotoxicity of tenofovir cannot be strictly excluded. <u>The monitoring of renal</u> <u>function (serum creatinine and serum</u> <u>phosphate) is recommended at baseline</u> <u>before taking tenofovir disoproxil fumarate</u> <u>and at routine intervals during therapy</u> <u>every four weeks.</u>

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1 214. Gilead's EU label also instructed physicians when to increase monitoring and
 2 consider treatment interruption in light of the results of frequent monitoring. Gilead's U.S. label
 3 contained no such warning:

Viread U.S. Label 10/26/01	Viread EU Label 02/07/2002
	If serum phosphate is < 1.5 mg/dl (0.48 mmol/l) or serum creatinine is > 1.7 mg/dl (150 µmol/l), renal function should be re-evaluated within one week. Consideration should be given to interrupting treatment with tenofovir disoproxil fumarate in patients with increases in serum creatinine to > 2.0 mg/dl (177 µmol/l) or decreases in serum phosphate to < 1.0 mg/dl (0.32 mmol/l).

10 215. On December 8, 2004, Gilead updated Viread's EU labeling to change the
 11 recommended renal monitoring schedule and recommend that doctors monitor creatinine
 12 clearance, which gives a more accurate picture of kidney function, rather than serum creatinine.⁶⁶
 13 Gilead continued to instruct doctors in the EU to monitor TDF patients more carefully than it
 14 instructed doctors in the U.S.:

Viread's U.S. Labeling 12/8/2004	Viread's EU Labeling 12/8/2004
<u>Patients at risk for, or with a history of, renal dysfunction and patients receiving concomitant nephrotoxic agents should be carefully monitored for changes in serum creatinine and phosphorus.</u>	Monitoring of renal function (creatinine clearance and serum phosphate) is recommended before taking tenofovir disoproxil fumarate, every four weeks during the first year, and then every three months. In patients at risk for, or with a history of, renal dysfunction, and patients with renal insufficiency, consideration should be given to more frequent monitoring of renal function.

21 216. Like the initial EU label, the 2004 EU label also instructed physicians when to
 22 increase monitoring and consider treatment interruption in light of the results of frequent
 23 monitoring. Although Gilead instructed U.S. doctors to adjust the dose interval for patients with
 24
 25

26 ⁶⁶ Gilead did not recommend that doctors monitor creatinine clearance in the U.S. until 2007.

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1 creatinine clearance <50 mL/min, it did not tell doctors to monitor for creatinine clearance (only
 2 serum creatinine for some patients) and only instructed doctors to monitor patients' serum
 3 creatinine if they were at risk for, or had a history of, renal impairment:

Viread's U.S. Labeling 12/8/2004	Viread's EU Labeling 12/8/2004
Dosing interval adjustment is recommended in all patients with creatinine clearance <50 mL/min.	If serum phosphate is < 1.5 mg/dl (0.48 mmol/l) or creatinine clearance is decreased to < 50 mL/min, renal function should be re-evaluated within one week and the dose interval of Viread adjusted (see 4.2). Consideration should also be given to interrupting treatment with tenofovir disoproxil fumarate in patients with creatinine clearance decreased to < 50 mL/min or decreases in serum phosphate to < 1.0 mg/dl (0.32 mmol/l).

11 217. After Gilead began recommending in its U.S. labeling that doctors calculate
 12 creatinine clearance in all patients prior to initiating therapy and as clinically appropriate during
 13 therapy, Gilead still gave stronger warnings in the EU—recommending that EU doctors monitor
 14 all patients' creatinine clearance and serum phosphate every four weeks during the first year, then
 15 every three months:

Viread's U.S. Labeling 05/21/2007	Viread's EU Labeling 05/21/2007
It is recommended that creatinine clearance be calculated in all patients prior to initiating therapy and as clinically appropriate during therapy with VIREAD. <u>Routine monitoring of calculated creatinine clearance and serum phosphorus should be performed in patients at risk for renal impairment.</u>	It is recommended that creatinine clearance is calculated in all patients prior to initiating therapy with tenofovir disoproxil fumarate and <u>renal function (creatinine clearance and serum phosphate) is also monitored every four weeks during the first year, and then every three months. In patients at risk for renal impairment, consideration should be given to more frequent monitoring of renal function.</u>

23 218. Gilead instructs in Viread's most recent EU labeling "that renal function (creatinine
 24 clearance and serum phosphate) [should be] assessed in all patients prior to initiating therapy with
 25 tenofovir disoproxil fumarate and ... also monitored after two to four weeks of treatment, after
 26

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1 three months of treatment, and every three to six months thereafter in patients without renal risk
 2 factors." For patients at risk for renal impairment, Gilead states that more frequent monitoring of
 3 renal function is "required."

4 219. Gilead has updated its Viread EU labeling multiple times every year since 2002.
 5 Each time, Gilead determined that it should instruct doctors in the EU that they should monitor all
 6 patients' kidneys on a frequent, specific schedule using multiple markers of kidney function,
 7 including serum phosphorus.

8 220. On February 24, 2005, Truvada received approval to be marketed in the EU. As
 9 with Viread, Gilead's Truvada EU labeling contained stronger monitoring warnings than its U.S.
 10 labeling at the time of approval:

11	Truvada's U.S. Labeling 08/02/2004	12	Truvada's EU Labeling 02/24/2005
13	<u>Patients at risk for, or with a history of, renal dysfunction and patients receiving concomitant nephrotoxic agents <u>should be carefully monitored for changes in serum creatinine and phosphorus.</u></u>	14	Careful monitoring of renal function (serum creatinine and serum phosphate) is recommended before taking Truvada, every four weeks during the first year, and then every three months. In patients with a history of renal dysfunction or in patients who are at risk for renal dysfunction, consideration should be given to more frequent monitoring of renal function.

17 221. Like its Viread EU labeling, Gilead's Truvada EU labeling also instructed physicians to increase monitoring and consider treatment interruption if the results of frequent monitoring showed that a patient's serum phosphate or creatinine clearance fell below a specified level. Gilead's U.S. labeling recommended only that patients with creatinine clearance < 50 mL/min receive a dose adjustment—though Gilead did not recommend that doctors monitor patients' creatinine clearance (and would not do so for almost three years) and only instructed doctors to monitor patients' serum creatinine if they were at risk for, or had a history of, renal impairment.

25 222. In Truvada's most recent SmPC, Gilead continues to instruct doctors as to frequent, routine monitoring of renal function (creatinine clearance and serum phosphate) for patients

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1 without preexisting risk factors for renal disease: at treatment initiation and then “after two to four
 2 weeks of use, after three months of use and every three to six months thereafter.” For patients at
 3 risk for renal disease, Gilead warns that more frequent monitoring of renal function is “required.”

4 223. Gilead has updated its Truvada EU labeling multiple times every year since 2005.
 5 Each time, Gilead determined that it should instruct doctors in the EU to monitor all patients’
 6 kidneys on a frequent, specific schedule using multiple markers of kidney function, including
 7 serum phosphorus.

8 224. In 2006, Gilead issued a “Dear Doctor” letter to physicians in the EU about the
 9 importance of frequent, routine monitoring of all TDF patients’ renal function. Gilead issued no
 10 such letter to doctors in the U.S., though the risk to patients’ kidneys was the same.

11 225. On December 18, 2007, Atripla received approval to be marketed in the EU. As
 12 with Viread and Truvada, Gilead’s Atripla EU labeling contained stronger monitoring warnings
 13 than its U.S. labeling at the time of approval:

Atripla’s U.S. Labeling 07/12/2006	Atripla’s EU Labeling 12/18/2007
<u>Patients at risk for, or with a history of, renal dysfunction and patients receiving concomitant nephrotoxic agents <u>should be carefully monitored for changes in serum creatinine and phosphorus.</u></u>	It is recommended that creatinine clearance is calculated in all patients prior to initiating therapy with Atripla and renal function (creatinine clearance and serum phosphate) is also monitored every four weeks during the first year and then every three months. In patients with a history of renal dysfunction or in patients who are at risk for renal dysfunction, consideration must be given to more frequent monitoring of renal function.

21 226. Like its Viread EU and Truvada EU labeling, Gilead’s Atripla EU labeling also
 22 instructed physicians to increase monitoring and consider treatment interruption if the results of
 23 frequent monitoring showed that a patient’s serum phosphate or creatinine clearance fell below a
 24 specified level. Gilead’s U.S. labeling stated only that patients with creatinine clearance < 50
 25 mL/min should not receive Atripla—though Gilead did not recommend that doctors monitor
 26 patients’ creatinine clearance (and would not do so for approximately another year) and only

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1 instructed doctors to monitor patients' serum creatinine if they were at risk for, or had a history of,
 2 renal impairment:

Atripla's U.S. Labeling 07/12/2006	Atripla's EU Labeling 12/18/2007
Since ATRIPLA is a combination product and the dose of the individual components cannot be altered, patients with creatinine clearance <50 mL/min should not receive ATRIPLA.	If serum phosphate is < 1.5 mg/dl (0.48 mmol/l) or creatinine clearance is decreased to < 50 mL/min in any patient receiving Atripla, renal function must be re-evaluated within one week, including measurements of blood glucose, blood potassium and urine glucose concentrations (see section 4.8, proximal tubulopathy). Since Atripla is a combination product and the dosing interval of the individual components cannot be altered, treatment with Atripla must be interrupted in patients with confirmed creatinine clearance < 50 mL/min or decreases in serum phosphate to < 1.0 mg/dl (0.32 mmol/l).

12 227. In Atripla's most recent SmPC, Gilead instructs doctors that creatinine clearance
 13 should be calculated in all patients prior to initiating therapy and renal function (creatinine
 14 clearance and serum phosphate) be monitored after two to four weeks of use, after three months
 15 of treatment and every three to six months thereafter in patients without renal risk factors. For
 16 patients at risk, Gilead states that more frequent monitoring is "required."

17 228. Gilead has updated its Atripla EU labeling multiple times every year since 2007.
 18 Each time, Gilead determined that it should instruct doctors in the EU to monitor all patients'
 19 kidneys on a frequent, specific schedule using multiple markers of kidney function, including
 20 serum phosphorus.

21 229. On November 30, 2011, Complera (under the trade name Eviplera) received
 22 approval to be marketed in the EU. As with Viread, Truvada, and Atripla, Gilead's Complera EU
 23 labeling contained stronger monitoring warnings than its U.S. labeling at the time of approval:

Complera's U.S. Labeling 08/10/2011	Complera's EU Labeling 11/30/11
It is recommended that creatinine clearance be calculated in all patients prior to initiating therapy and as clinically appropriate during	It is recommended that creatinine clearance is calculated in all patients prior to initiating therapy with Eviplera and renal function

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1	Complera's U.S. Labeling 08/10/2011	Complera's EU Labeling 11/30/11
2	therapy with COMPLERA. <u>Routine</u> <u>monitoring of calculated creatinine</u> <u>clearance and serum phosphorus should be</u> <u>performed in patients at risk for renal</u> 3 <u>impairment, including patients who have</u> 4 <u>previously experienced renal events while</u> 5 <u>receiving HEP SERA.</u>	(creatinine clearance and serum phosphate) is also monitored every four weeks during the first year and then every three months. In patients at risk for renal impairment, including patients who have previously experienced renal events while receiving adefovir dipivoxil, consideration should be given to more frequent monitoring of renal function.

6 230. Like its Viread EU, Truvada EU, and Atripla EU labeling, Gilead's Complera EU
7 labeling also instructed physicians to increase monitoring and consider treatment interruption if
8 the results of frequent monitoring showed that a patient's serum phosphate or creatinine clearance
9 fell below a specified level. Gilead's U.S. labeling stated only that patients with creatinine
10 clearance < 50 mL/min should not receive Complera:
11

12	Complera's U.S. Labeling 08/10/2011	Complera's EU Labeling 11/30/11
13	Since COMPLERA is a combination product and the dose of the individual components cannot be altered, patients with creatinine 14 clearance below 50 mL per minute should not receive COMPLERA.	If serum phosphate is < 1.5 mg/dl (0.48 mmol/l) or creatinine clearance is decreased to < 50 mL/min in any patient receiving Eviplera, renal function should be re-evaluated within one week, including measurements of blood glucose, blood potassium and urine glucose concentrations (see section 4.8, proximal tubulopathy). Since Eviplera is a combination product and the dosing interval of the individual components cannot be altered, treatment with Eviplera must be interrupted in patients with confirmed creatinine clearance decreased to < 50 mL/min or decreases in serum phosphate to < 1.0 mg/dl (0.32 mmol/l).

21 231. In Complera's/Eviplera's most recent SmPC, Gilead instructs that creatinine
22 clearance should be calculated in all patients prior to initiating therapy and renal function
23 (creatinine clearance and serum phosphate) be monitored after two to four weeks of use, after three
24 months of treatment and every three to six months thereafter in patients without renal risk factors.
25 For patients at risk, Gilead states that more frequent monitoring is "required."
26

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1 232. Gilead has updated its Complera EU labeling multiple times every year since 2011.
 2 Each time, Gilead determined that it should instruct doctors in the EU to monitor all patients'
 3 kidneys on a frequent, specific schedule using multiple markers of kidney function, including
 4 serum phosphorus.

5 233. On May 27, 2013, Stribild received approval to be marketed in the EU. As with
 6 Viread, Truvada, Atripla, and Complera, Gilead included in its Stribild EU labeling stronger
 7 monitoring warnings than its U.S. labeling at the time of approval:

Stribild U.S. Labeling 08/27/2012	Stribild's EU Labeling 05/27/2013
Estimated creatinine clearance, urine glucose and urine protein should be documented in all patients prior to initiating therapy.... <u>Routine monitoring of estimated creatinine clearance, urine glucose, and urine protein should be performed during STRIBILD therapy in all patients. Additionally, serum phosphorus should be measured in patients at risk for renal impairment.</u>	Creatinine clearance should be calculated and urine glucose and urine protein should be determined in all patients ... Creatinine clearance, serum phosphate, urine glucose and urine protein should be monitored every four weeks during the first year and then every three months during Stribild therapy. In patients at risk for renal impairment consideration should be given to more frequent monitoring of renal function.

15 234. Gilead also included in its Stribild EU labeling a stronger warning about initiating
 16 the drug in patients with mild renal impairment:

Stribild U.S. Labeling 08/27/2012	Stribild's EU Labeling 05/27/2013
STRIBILD should not be initiated in patients with estimated creatinine clearance below 70 mL per min.	Stribild should not be initiated in patients with creatinine clearance < 70 mL/min. It is recommended that Stribild is not initiated in patients with creatinine clearance < 90 mL/min unless, after review of the available treatment options, it is considered that Stribild is the preferred treatment for the individual patient.

22 235. In Stribild's most recent SmPC, Gilead states that for patients at risk, physician
 23 monitoring of creatinine clearance, serum phosphate, urine glucose, and urine protein more
 24 frequently than every four weeks during the first year of treatment and then every three months
 25 during Stribild therapy is "required."

26

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1 236. Gilead has updated its Stribild EU labeling multiple times every year since 2013.
2 Each time, Gilead determined that it should instruct doctors in the EU to monitor all patients'
3 kidneys on a frequent, specific schedule using multiple markers of kidney function, including
4 serum phosphorus.

5 237. Unlike Gilead's U.S. labeling, Gilead's EU labeling for Viread and Truvada also
6 discloses that a higher risk of renal impairment has been reported in patients receiving TDF as part
7 of a ritonavir or cobicistat-boosted regimen (like Stribild), and doctors should carefully evaluate
8 whether it is appropriate to prescribe TDF as part of a boosted regimen in patients with renal risk
9 factors.

10 238. There is no medical, clinical, or scientific basis for the differences between the
11 warnings contained in Gilead's labeling for its TDF-based products in the U.S. and its labeling for
12 the same products in the EU. Gilead knew that it should instruct doctors to monitor all patients for
13 multiple markers of kidney function on a frequent schedule but did not do so in the U.S.

14 239. Gilead was more concerned with increasing or maintaining TDF Drug sales in the
15 U.S. by downplaying the safety risk and the need for careful, frequent monitoring of all patients
16 than it was in safeguarding patients from the known risks of TDF toxicity.

17 240. In addition, until 2018, Gilead's U.S. warnings about the need to monitor patients
18 for renal effects of Viread, Truvada, Atripla, and Complera were also far weaker than the warnings
19 it gives to monitor patients for renal effects of TAF, even though TAF is far less toxic to kidneys
20 than TDF. Gilead has consistently warned doctors to monitor all patients taking TAF-based drugs
21 for multiple markers of renal function, including urine glucose and urine protein, not just estimated
22 creatinine clearance.

23 241. For example, when the FDA approved Odefsey—the TAF version of Complera—
24 on March 1, 2016, Gilead gave stronger monitoring warnings for safer Odefsey than it did for
25 Complera, telling doctors that they should monitor all Odefsey patients, not just those at risk, for
26 multiple markers of kidney function:

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1	Complera's U.S. Label 03/01/2016	Odefsey's Labeling 03/01/2016
2	3	4
5	6	7
8	It is recommended that estimated creatinine clearance be assessed in all patients prior to initiating therapy and as clinically appropriate during therapy with COMPLERA. In patients at risk of renal dysfunction, including patients who have previously experienced renal events while receiving HEP SERA®, it is recommended that estimated creatinine clearance, serum phosphorus, urine glucose, and urine protein be assessed prior to initiation of COMPLERA and periodically during COMPLERA therapy.	Estimated creatinine clearance, urine glucose and urine protein should be assessed before initiating ODEFSEY therapy and should be monitored during therapy in all patients. Serum phosphorus should be monitored in patients with chronic kidney disease because these patients are at greater risk of developing Fanconi syndrome on tenofovir prodrugs. Discontinue ODEFSEY in patients who develop clinically significant decreases in renal function or evidence of Fanconi syndrome. ⁶⁷

9 242. When the FDA approved Descovy—the TAF version of Truvada—on April 4,
10 2016, Gilead gave stronger monitoring warnings for safer Descovy than it did for Truvada, telling
11 doctors that they should monitor all Descovy patients, not just those at risk, for multiple markers
12 of kidney function:

13	Truvada U.S. Labeling 04/04/2016	Descovy U.S. Labeling 04/04/2016
14	15	16
17	18	19
20	It is recommended that estimated creatinine clearance be assessed in all individuals prior to initiating therapy and as clinically appropriate during therapy with TRUVADA. In patients at risk of renal dysfunction, including patients who have previously experienced renal events while receiving HEP SERA®, it is recommended that estimated creatinine clearance, serum phosphorus, urine glucose, and urine protein be assessed prior to initiation of TRUVADA, and periodically during TRUVADA therapy.	Estimated creatinine clearance, urine glucose, and urine protein should be assessed before initiating DESCovy therapy and should be monitored during therapy in all patients. Serum phosphorus should be monitored in patients with chronic kidney disease because these patients are at greater risk of developing Fanconi syndrome on tenofovir prodrugs. Discontinue DESCovy in patients who develop clinically significant decreases in renal function or evidence of Fanconi syndrome.

21 243. Gilead determined that it should give stronger monitoring warnings for its safer
22 TAF-based drugs, yet failed to strengthen its TDF Drug warnings for years.
23
24
25

26 ⁶⁷ On August 17, 2017, Gilead updated its Odefsey label to tell doctors to all monitor all patients, not just those with chronic kidney disease, for serum phosphorus.

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1 2. **Gilead failed to adequately warn patients about the risks of TDF.**

2 244. Gilead failed to adequately warn patients about the risks of TDF, and the need to
3 routinely monitor all patients taking TDF, in direct-to-consumer advertising and in patient
4 labeling.

5 245. Gilead promoted its TDF Drugs directly to patients through direct-to-consumer
6 advertising, including print and online media. Like its sales force's promotion to doctors, Gilead's
7 consumer advertising downplayed the risks of TDF toxicity by, among other things, hiding risk
8 information relative to the benefits of the drugs, and suggesting that kidney and bone adverse
9 events only occurred in, and monitoring was only necessary for, patients with risk factors for such
10 injuries.

11 246. For example, a print advertisement for Truvada that appeared in the November
12 2004 edition of *The Advocate*, the oldest and largest lesbian, gay, bisexual, and transgender
13 magazine in the U.S., stated under the heading "Important Safety Information" that: "If you have
14 had kidney problems or take other medicines that can cause kidney problems, your medical
15 professional should do regular blood tests to check your kidneys." Yet Gilead knew by this time
16 that adverse kidney events were not limited to at risk patients, and thus should have warned doctors
17 and patients about the need for frequent monitoring of all patients.

18 247. On March 26, 2010, the FDA issued another Warning Letter to Gilead, this time in
19 connection with Gilead's direct-to-consumer print advertising for Truvada. The FDA stated that
20 Gilead's Truvada advertisement was false and misleading because it overstated the efficacy of
21 Truvada and minimized the risks associated with the drug, in violation of the Federal Food, Drug,
22 and Cosmetic Act and FDA implementing regulations. The FDA noted that Truvada is associated
23 with "serious risks" like new onset or worsening renal impairment, including cases of acute renal
24 failure and Fanconi syndrome (renal tubular injury with severe hypophosphatemia), and decreases
25 in bone mineral density, including cases of osteomalacia (associated with proximal renal
26 tubulopathy and which may contribute to fractures). The agency stated that Gilead's Truvada

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1 advertising was false or misleading because it failed to present the risks associated with Truvada
 2 with a prominence and readability comparable to the statements regarding the drug's benefits.

3 248. In addition to the reasons set forth in the Warning Letter, the Truvada advertising
 4 was also false and misleading because, like the earlier Truvada advertising, it continued to suggest
 5 that kidney problems only occurred in, and monitoring was also necessary for, patients that had
 6 had kidney problems in the past or took other medications that can cause kidney problems.

7 249. Upon information and belief, Gilead's other direct-to-consumer advertising for
 8 Viread, Truvada, Atripla, and Complera similarly failed to adequately warn patients about the true
 9 risk of TDF and the need to routinely monitor all patients for TDF-associated kidney and bone
 10 effects.

11 250. Gilead's patient package inserts for Viread, Truvada, Atripla, and Complera also
 12 failed to warn about all patients' need to be routinely monitored by their doctors for adverse kidney
 13 and bone effects. The patient package inserts said nothing for years about monitoring anyone other
 14 than those who were already at risk for kidney and bone problems despite Gilead's knowledge that TDF
 15 was injuring patients without identified risk factors for such injuries.

16 251. Gilead's patient package inserts for Viread, Truvada, Atripla, and Complera failed
 17 to adequately warn patients even after Gilead had inadequately updated the warnings in its
 18 prescriber labeling.

19 252. For example, Gilead did not disclose to patients that Viread may cause "new or
 20 worse kidney problems" until more than two years after Gilead added that warning to the Viread
 21 prescriber labeling. And Gilead waited many more years before it added the "new or worse kidney
 22 problems" disclosure to the patient package inserts for other TDF products; it did not appear in the
 23 Truvada patient package insert until June 17, 2013 and did not appear in the Atripla patient package
 24 insert until July 25, 2018—nearly five and ten years respectively after Gilead first warned doctors
 25 that TDF may cause "new onset or worsening renal impairment."

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1 253. Gilead similarly delayed disclosing to patients in the patient package inserts about
2 doctors' need to assess all plaintiffs' kidney function prior to initiating treatment with TDF.
3 Although Gilead added that warning to the Viread prescriber labeling in May 2007, it did not tell
4 patients that "[y]our healthcare provider should do blood tests to check your kidneys before you
5 start treatment" with TDF until August 16, 2012, for Viread, May 15, 2018, for Truvada, July 25,
6 2018, for Atripla, and January 25, 2013, for Complera. At a minimum, Gilead was grossly
7 negligent in failing to ensure that its warnings to patients were consistent with those it gave to
8 doctors and the patient warnings it gave were consistent among its various TDF Drugs.

9 **3. Gilead could have unilaterally strengthened its TDF drug labels.**

10 254. Gilead could have strengthened the Warnings, Precautions, and Adverse Events
11 sections of the labels for its TDF Drugs unilaterally without prior FDA approval.

12 a. **Gilead could have unilaterally strengthened its warnings before FDA
13 approval.**

14 255. Each time Gilead sought FDA approval for a new TDF Drug, it could have
15 strengthened its label before the drug obtained FDA approval. Gilead bears primary responsibility
16 for its drug labeling at all times, and was responsible for crafting adequate labels before the drugs
17 were FDA approved. No federal law prevented Gilead from submitting a stronger warning label
18 to the FDA prior to the initial approval of the TDF Drugs. And the FDA would not have prevented
19 Gilead from strengthening its monitoring warnings in advance of FDA approval.

20 256. Gilead's initial EU label for its first TDF Drug, Viread, included stronger
21 monitoring warnings. As it did in the EU, Gilead could have included stronger warnings in its
22 initial Viread label in the U.S.—had Gilead been concerned with patient safety rather than U.S.
23 sales.

24 257. Moreover, before Gilead submitted Truvada, Atripla, Complera, and Stribild for
25 FDA approval in the U.S., it knew that it gave stronger monitoring warnings for its TDF Drugs in
26

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1 the EU. Gilead knew, as evidenced by its EU labels, that stronger warnings were warranted. It
 2 could have and should have used this knowledge to strengthen its U.S. labels.

3 258. In addition, once TDF was on the market, each time Gilead submitted a new TDF
 4 Drug for FDA approval, it did so with years of cumulative knowledge as to the adverse toxic
 5 effects of TDF. Faced with accumulating information about adverse kidney and bone toxicity,
 6 including in patients without preexisting risk factors, Gilead could have strengthened its
 7 monitoring warnings before submitting the drugs for FDA approval.

8 259. The FDA would not have rejected Gilead's stronger warnings. The FDA has, in
 9 fact, approved labels including stronger monitoring warnings for the TDF Drugs, as well as the
 10 safer TAF drugs.

11 b. **Gilead could have unilaterally strengthened its warnings after FDA
 12 approval.**

13 (1) **Before August 22, 2008**

14 260. Prior to August 22, 2008, Gilead could have strengthened its Viread, Truvada, and
 15 Atripla labels via CBE without prior FDA approval. Under the CBE regulation in effect during
 16 that time, Gilead could have simply submitted a supplemental submission strengthening the labels'
 17 warnings and/or its instructions about the safe administration of the drugs. 21 C.F.R.
 18 § 314.70(c)(6)(iii).

19 261. Among other things, Gilead could have strengthened the labels' warnings by
 20 providing additional information about laboratory tests helpful in following the patient's response
 21 or identifying possible adverse reactions, including such factors as the range of normal and
 22 abnormal values and the recommended frequency with which tests should be performed before,
 23 during, and after therapy. 21 C.F.R. § 201.57(c)(6).

24 262. Prior to August 22, 2008, Gilead could have strengthened its labels via CBE without
 25 regard to whether it possessed information that it did not previously provide to the FDA.

26

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263. The FDA would not have rejected Gilead's supplemental submission to strengthen the TDF labels. The FDA has, in fact, approved labels including stronger monitoring warnings for the TDF Drugs, as well as the safer TAF drugs.

(2) On and after August 22, 2008 through July 2012

264. On and after August 22, 2008, when the CBE regulation was amended, Gilead could have unilaterally strengthened its labels for Viread, Truvada, Atripla, and Complera post-FDA approval based on “newly acquired information,” *i.e.*, information that was not previously presented to the FDA.

9 265. Gilead could have strengthened the Warnings, Precautions, and Adverse Events
10 sections of its labels unilaterally, without requiring prior FDA approval, based on, among other
11 things: increasing post-approval evidence that patients with and without preexisting risk factors
12 were experiencing kidney and bone adverse effects with a frequency greater than reported in
13 Gilead's clinical trials; expanding post-approval evidence that all patients are at risk for TDF-
14 induced nephrotoxicity, meaning that doctors should monitor all patients for multiple indicators of
15 renal function, including tubular dysfunction; and Gilead's own post-approval determinations to
16 give stronger warnings regarding the exact same TDF Drugs in the EU.

17 266. Except for Stribild, Gilead's clinical trials of the TDF Drugs, upon which FDA
18 approval was based, did not show significant nephrotoxicity of TDF, despite preclinical evidence
19 demonstrating that TDF could be highly toxic to kidneys and bones. However, once Gilead started
20 marketing TDF, patients quickly began experiencing TDF's nephrotoxic effects, some severe and
21 irreversible. Although the FDA became aware, after the clinical trials through adverse event
22 reporting, that TDF was injuring patients' kidneys and bones, it did not know the true frequency
23 or severity of adverse events, injury, or risk associated with TDF.

24 267. On May 21, 2007, Gilead changed its Viread label to instruct doctors to calculate
25 creatinine clearance in all patients before initiating treatment with TDF and as clinically

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1 appropriate during therapy. Gilead recommended the monitoring of creatinine clearance and serum
 2 phosphorus only for patients at risk of renal impairment.

3 268. This warning remained inadequate because it failed to instruct doctors to frequently
 4 monitor all patients for sufficiently sensitive markers of kidney function that could detect early
 5 signs of nephrotoxicity and thus prevent or lessen the harm of TDF. As Gilead had known since at
 6 least 2002, TDF was injuring patients with no preexisting risk factors for kidney impairment.
 7 Gilead's May 21, 2007 label change perpetuated the false distinction between patients "at risk" for
 8 TDF-induced nephrotoxicity and everyone else. But as subsequent studies would make clear, while
 9 there may be certain factors that increase a patient's risk of TDF-induced renal damage, *all TDF*
 10 *patients are at risk*—making frequent, careful monitoring of all patients essential for safe use of
 11 the drug.

12 269. As clinicians' experience with TDF grew, the medical literature recognized that
 13 even if TDF may not frequently impair kidneys' *glomerular function*—as measured by serum
 14 creatinine or creatinine clearance—in the absence of established risk factors, TDF-induced damage
 15 to kidneys' *tubular function* is much more common and cannot be adequately predicted by
 16 traditional risk factors for kidney impairment or detected by monitoring for glomerular function.
 17 These new studies demonstrated a heightened risk to all patients, leading study authors to conclude
 18 that all patients must be frequently monitored for markers of tubular function—e.g., serum
 19 phosphorus, in addition to creatinine clearance.

20 270. For example, the 2009 paper, Labarga P., *et al.*, "Kidney tubular abnormalities in
 21 the absence of impaired glomerular function in HIV patients treated with tenofovir," described the
 22 study of glomerular and tubular function in 284 patients, 154 of whom took TDF, 49 of whom
 23 took another HIV regimen, and 81 of whom took no antiretroviral drugs. The authors found that
 24 glomerular function, as measured by plasma creatinine levels or creatinine clearance or both, was
 25 within normal limits and comparable among all study groups. Tubular dysfunction, on the other
 26 hand, was far more frequent in the TDF group (22%), as compared to those never treated with TDF

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1 (6%) or never exposed to antiretrovirals (12%). The authors also identified three TDF patients with
 2 complete Fanconi syndrome (the signature TDF toxicity), even though each patient's creatinine
 3 clearance was within the normal range. After follow-up, the data showed that the TDF patients had
 4 a significantly greater risk for tubular damage than patients never treated with TDF: an estimated
 5 25% rate of tubular dysfunction at 4 years for TDF patients compared to null for the rest.

6 271. The Labarga study also found that no risk factor other than TDF use and old age
 7 was predictive of tubular dysfunction. And because estimates of glomerular function like
 8 creatinine clearance were not predictive of tubular function, the authors explained that unless
 9 tubular parameters like urine glucose and/or phosphorus are routinely monitored, tubular
 10 abnormalities may go undiagnosed. And if tubular damage persists unnoticed, patients may
 11 progress to more severe kidney damage and experience a chronic loss of phosphorus, leading to
 12 bone mineral density loss and premature osteoporosis. The authors recommended that all TDF
 13 patients be monitored for signs of tubular damage so that a switch in therapy could be considered
 14 in the event of progressive deterioration.

15 272. A 2011 article, Hall AM *et al.*, "Tenofovir-associated kidney toxicity in HIV-
 16 infected patients: a review of the evidence," conducted a literature review and further addressed
 17 the disconnect between results of studies examining markers of glomerular function with the
 18 nephrotoxicity seen in practice. The authors noted that prior studies tended to establish that TDF
 19 was not often significantly toxic to the glomerulus—which contrasted with the authors' clinical
 20 experience in treating TDF patients for nephrotoxicity. In practice, TDF-associated nephrotoxicity
 21 was the authors' most common reason for referral of HIV patients to specialist renal services. The
 22 authors explained that the main site of TDF toxicity was the proximal renal tubule (not the
 23 glomerulus) and that proximal tubule dysfunction may not be detected by measuring glomerular
 24 filtration.

25 273. Because (a) TDF-associated nephrotoxicity can occur in patients without obvious
 26 risks factors and at highly variable times after the initiation of therapy, and (b) standard tests of

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1 glomerular function are insufficiently sensitive to detect early or mild cases of nephrotoxicity, the
 2 authors concluded that all patients on TDF should be carefully and routinely monitored (every 3
 3 months during the first year then twice yearly) for signs of both glomerular and tubular dysfunction
 4 so that long-term effects on kidney and bone health can be assessed.

5 274. A 2012 paper, Scherzer, R., *et al.*, "Association of Tenofovir Exposure with Kidney
 6 Disease Risk in HIV Infection," discussed the authors' study of 10,841 HIV-infected patients from
 7 the Veterans Health Administration to assess the associations of tenofovir with kidney disease
 8 outcomes. The authors found that each year of tenofovir exposure was associated with a 34%
 9 increased risk of proteinuria, 11% increased risk of rapid decline in kidney function, and 33%
 10 increased risk of chronic kidney disease. The results provided "strong evidence that tenofovir may
 11 cause clinically significant toxicity to the kidney that is not reversible." The study also
 12 demonstrated that traditional risk factors did not worsen the effects of tenofovir. The authors
 13 concluded that "while traditional risk factors such as hypertension, older age, and diabetes may
 14 increase the risk for kidney disease, tenofovir is associated with elevated risk even in patients
 15 without preexisting risk factors."⁶⁸

16 275. The authors explained the strength of their results in light of the study's large
 17 patient population and inclusion of patients who are often excluded from clinical trials or do not
 18 qualify or volunteer for cohort studies. The authors contrasted their study with the design of
 19 previous studies which made them less able to detect statistically significant associations between
 20 tenofovir use and kidney disease.

21 276. A 2013 paper, Reynes, J., *et al.*, "Tubular and glomerular proteinuria in HIV-
 22 infected adults with estimated glomerular filtration rate ≥ 60 ml/min per 1.73," recommended that
 23 all TDF patients be systematically monitored for markers of tubular injury in light of the authors'
 24

25 ⁶⁸ The FDA cited the Scherzer study in connection with its medical review of the Stribild NDA
 26 in July 2012. At most, this demonstrates the FDA's knowledge of this study as of July 2012—
 approximately 4 years after the CBE regulation requiring "newly acquired information" became
 effective. Plaintiffs do not assert post-FDA approval failure to warn claims with respect to Stribild.

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1 finding that nearly 20% of 1200 patients had proteinuria even though they had a normal creatinine-
2 based estimated glomerular filtration rate.

3 277. And a 2014 paper, Bonjoch, A., *et al.*, "High prevalence of signs of renal damage
4 despite normal renal function in a cohort of HIV-infected patients: evaluation of associated
5 factors," also found that signs of renal damage were "highly frequent" even in patients with a
6 normal estimated glomerular filtration rate. The authors concluded that the data demonstrated the
7 need for early detection of renal injury, even in patients with normal renal function.

8 278. These papers, and others in this timeframe that demonstrated a high percentage of
9 TDF patients with proximal renal tubular dysfunction, stand in stark contrast to Gilead's Viread
10 clinical trials and subsequent attempts to maintain that only some TDF patients are at risk. Unlike
11 the Viread clinical trials, these papers showed significant nephrotoxicity of TDF—with toxicity
12 occurring at a high frequency and high risks of kidney disease outcomes looming even in patients
13 with normal glomerular function and without traditional risk factors.

14 279. The clinical trials reported that the frequency of renal events leading to drug
15 discontinuation was low (0.4%). Despite these results, Gilead knew that the potential for TDF to
16 be toxic was high, particularly in real world settings over the long-term. And, indeed, multiple
17 retrospective studies have demonstrated that the rate of renal adverse events leading to drug
18 discontinuation was many times higher than what was reported in clinical trials. For example, the
19 2011 paper, "Tenofovir-induced renal toxicity in 324 HIV-infected antiretroviral-naïve patients,"
20 found that drug discontinuation due to decline in GFR or tubular dysfunction was 9.2%.

21 280. Postmarketing adverse event reports did not put the FDA on notice of the frequency
22 or severity of the risk. Adverse event reports underreport the true incidence of adverse events
23 because they are based on voluntary reporting. And they do not reflect the damage TDF inflicts on
24 kidneys and bones before renal function declines, the risk of future adverse kidney or bone
25 outcomes, nor the benefits of frequent, careful monitoring of all patients for early signs of
26 nephrotoxicity as demonstrated by these new studies.

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1 281. Further, there is no evidence that Gilead submitted to the FDA analyses
 2 demonstrating that TDF patients have a high frequency of renal damage or the true extent of the
 3 risk nephrotoxicity poses to all TDF patients even if they have normal glomerular function or do
 4 not have preexisting risk factors.

5 282. Gilead did not submit analyses to the FDA establishing the full extent of the
 6 frequency or severity of risk that TDF poses to all patients, nor did it tell the FDA that the one
 7 marker of kidney function Gilead was warning doctors to monitor in all patients after May 21,
 8 2007 could not adequately detect the type of kidney injury that was frequently occurring in all
 9 TDF patients (and, which left unchecked, would cause more severe kidney injury and also harm
 10 patients' bones). Gilead could have analyzed the accumulating data demonstrating the higher
 11 frequency and severity of the risk to all TDF patients and strengthened its warnings, but did not.

12 283. Until the FDA's review of the Stribild NDA in 2012, there is no evidence that the
 13 agency reviewed any medical literature regarding TDF or other analyses describing how post-
 14 approval renal and bone injury and/or adverse events were occurring at a frequency or severity
 15 much greater than that reported in the registrational clinical trials. The FDA based its approval of
 16 Viread on the preclinical data and clinical trials Gilead submitted in its Viread NDA. After Viread
 17 was approved, the FDA based its approvals of the Truvada, Atripla, and Complera NDAs on
 18 Gilead's data showing the bioequivalence of those combination drugs to their individual
 19 components. The FDA's approvals of Truvada, Atripla, and Complera were not based on any new
 20 clinical studies or other analyses regarding safety of TDF. When the FDA conducted a more
 21 searching review in connection with the Stribild NDA, Gilead proposed and the FDA approved
 22 stronger monitoring warnings for Stribild, which included recommending the monitoring of all
 23 patients for glomerular and tubular injury.

24 284. Unlike in the U.S., Gilead did warn—since 2002—physicians in the EU to
 25 frequently monitor all patients for both glomerular (creatinine clearance) and tubular (serum
 26 phosphorus) injury. In fact, after Gilead received FDA approval to market each of the TDF Drugs,

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1 it repeatedly determined to give stronger monitoring warnings for the exact same TDF Drugs in
 2 the EU. Upon information and belief, Gilead did not disclose to the FDA that it gave stronger
 3 monitoring warnings in the EU for the exact same products nor did it disclose its scientific or
 4 medical reasons for doing so.

5 285. In addition, once Gilead finally launched the safer TAF-based drugs (after approval
 6 of the TDF Drugs) it also gave stronger monitoring warnings for the safer TAF drugs than it gave
 7 in the TDF Drugs' labels, including recommending that doctors monitor all patients for both
 8 glomerular and tubular injury.

9 286. The FDA would not have rejected a label change strengthening monitoring
 10 recommendations to protect all patients from risks of TDF-induced kidney and bone adverse
 11 effects. In 2018, the FDA did, in fact, approve labels including stronger monitoring warnings for
 12 Viread, Truvada, Atripla, and Complera, like it did for the safer TAF drugs years earlier.

13 V. TOLLING OF THE STATUTE OF LIMITATIONS

14 287. Gilead misrepresented that TAF was "new" despite knowing that it had discovered
 15 the benefits of TAF even before Viread was approved in 2001.

16 288. Gilead misrepresented the reasons that it shelved TAF in 2004, asserting that TAF
 17 could not be differentiated from TDF when it knew that TAF was, in fact, highly differentiated
 18 from TDF.

19 289. Gilead concealed that it shelved TAF in 2004 in order to extend the lifecycle of its
 20 HIV product portfolio while patients were injured by TDF-induced kidney and bone toxicity.

21 290. Gilead misrepresented that it renewed development of TAF because of the needs of
 22 an aging HIV population. Gilead knew by 2004 when it halted TAF development that, as a result
 23 of cART, many HIV patients had a normal life expectancy.

24 291. For years, Gilead has publicized the pretext for its decision to halt and then renew
 25 TAF development in order to conceal the existence of Plaintiffs' claims.

26
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1 292. Gilead concealed that it did not reduce the dose of TDF in Stribild even though it
 2 knew to reduce the tenofovir prodrug dose when combined with cobicistat.

3 293. Gilead concealed the true risk of kidney and bone injuries TDF posed to patients
 4 who did not have preexisting risk factors for such injuries and concealed from U.S. doctors and
 5 patients what it knew about the need to monitor all patients for TDF associated toxicity.

6 294. Because of Gilead's misrepresentations and omissions, plaintiffs did not know and
 7 had no reason to suspect that Gilead's wrongdoing was the cause of their injuries and could not
 8 have discovered their claims.

9 295. No reasonable person taking TDF-based drugs and experiencing kidney and bone
 10 toxicities would have suspected that Gilead purposefully withheld a safer design that would have
 11 ameliorated those very side effects.

12 296. No reasonable person without prior risk factors for renal or bone harm taking TDF-
 13 based drugs and experiencing kidney and bone toxicities would have suspected that Gilead failed
 14 to adequately warn them because the label misleadingly suggests that only patients with
 15 preexisting risk factors were in danger.

16 297. No reasonable person would have suspected that Gilead provided stronger warnings
 17 to patients and doctors in the EU than it did in the U.S. for the exact same TDF products.

18 298. Gilead's misrepresentations and omissions would lead a reasonable person to
 19 believe that he or she did not have a claim for relief.

20 299. Because of Gilead's misrepresentations and omissions, neither Plaintiffs nor any
 21 reasonable person would have had reason to conduct an investigation. Once Plaintiffs suspected
 22 that Gilead's wrongdoing was the cause of their injuries, they were diligent in trying to uncover
 23 the facts.

24 300. Gilead's misrepresentations and omissions regarding its refusal to earlier market
 25 TAF-designed products and the true risks of TDF constitute continuing wrongs that continue to
 26 this day.

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1 VI. CLAIMS FOR RELIEF

2 COUNT I

3 **WASHINGTON PRODUCTS LIABILITY ACT,**
4 **REV. CODE WASH. §§ 7.72-010 ET SEQ.**5 301. Washington Plaintiffs reallege and incorporate the allegations made above as if
6 fully set forth below, including but not limited to the allegations specifically contained in the
7 paragraphs corresponding to Counts I and II above.

8 302. Plaintiffs assert pre-approval design defect claims.

9 303. The TDF Drugs are not reasonably safe as designed and not reasonably safe because
10 adequate warnings or instructions were not provided.11 304. At the time of manufacture, and before FDA approval, the likelihood that the TDF
12 Drugs would cause Plaintiffs' harm or similar harms, and the seriousness of those harms,
13 outweighed the burden on the manufacturer to design a product that would have prevented those
14 harms and the adverse effect that an alternative design that was practical and feasible would have
15 on the usefulness of the product.16 305. Plaintiffs allege failure to warn claims based on Gilead's ability to strengthen its
17 U.S. labels before FDA approval for all TDF Drugs and after FDA approval for Viread, Truvada,
18 Atripla, and Complera through July 2012.19 306. At the time of manufacture, and before FDA approval, the likelihood that the TDF
20 Drugs would cause Plaintiffs' harm or similar harms, and the seriousness of those harms, rendered
21 the warnings or instructions inadequate and Gilead could have provided adequate warnings or
22 instructions.23 307. After the time of manufacturer, and before FDA approval, Gilead learned or a
24 reasonably prudent manufacturer should have learned about a danger connected with the TDF
25 Drugs. Gilead's failure to exercise reasonable care to inform consumers about the dangers after it
26 learned about them rendered the warnings or instructions inadequate.

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308. The defective and unreasonably dangerous condition of the TDF Drugs proximately caused Washington Plaintiffs' injuries and damages for which recovery is sought.

COUNT II

FRAUD BY OMISSION

309. Plaintiffs reallege and incorporate the allegations made above as if fully set forth below.

310. Gilead has a duty to exercise ordinary care in the design, manufacture, marketing, and sale of its pharmaceutical products, including the TDF Drugs.

9 311. Gilead has a duty to refrain from selling unreasonably dangerous products,
10 including the duty to ensure that its pharmaceutical products do not cause patients to suffer from
11 foreseeable risks of harm.

12 312. Gilead has a duty to monitor the adverse effects associated with pharmaceutical
13 products, including Stribild.

14 313. Gilead has a duty to exercise reasonable care when it undertakes affirmative acts
15 for the protection of others.

16 314. Gilead owes these duties to Plaintiffs because it was foreseeable to Gilead that
17 patients like Plaintiffs would ingest and consequently be endangered by the TDF Drugs.

18 315. Gilead also owed a duty to speak because it was in possession of information about
19 TDF and TAF that was not readily available to Plaintiffs and Plaintiffs' physicians, made partial
20 representations about TDF and TAF to Plaintiffs and Plaintiffs' physicians while suppressing
21 material facts, and actively concealed material information about TDF and TAF from Plaintiffs
22 and Plaintiffs' physicians, including that: (a) Gilead knew about the safer TAF design for
23 delivering tenofovir into the body prior to seeking and receiving FDA approval for the TDF Drugs
24 but designed the TDF Drugs to include TDF anyway, even though it knew that TDF posed a
25 significant and increased safety risk to patients' kidneys and bones; (b) the toxicity associated with
26 tenofovir was not unavoidable; (c) the real reason Gilead abandoned its TAF design in 2004 was

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1 not because TAF could not be sufficiently differentiated from TDF; (d) Gilead had already
 2 determined that it should reduce the dose of tenofovir prodrug when combining it with cobicistat
 3 at the time it was developing Stribild but Gilead did not reduce the TDF dose in Stribild as it did
 4 with Genvoya; (e) Gilead purposefully withheld the TAF design, which it knew was safer than
 5 TDF, solely to make more money; and (f) Gilead knew to warn doctors to frequently monitor all
 6 patients for the adverse effects of TDF toxicity using more than one insufficient marker of kidney
 7 function even though it did not do so in its warnings to doctors in the U.S.

8 316. Gilead knew that this information was not readily available to Plaintiffs and their
 9 doctors, and Plaintiffs and their doctors did not have an equal opportunity to discover the truth.
 10 Plaintiffs and their doctors had no practicable way of discovering the true state and timing of
 11 Gilead's knowledge.

12 317. Gilead intentionally omitted adequate warnings about the risks and safe use of TDF
 13 when promoting the TDF Drugs to doctors and patients by, *inter alia*, omitting information about
 14 the frequency and severity of adverse kidney and bone events and failing to tell doctors to
 15 adequately monitor TDF patients for drug-induced toxicity.

16 318. Gilead intentionally omitted from its prescriber and patient labeling an adequate
 17 warning regarding the need for doctors to monitor all TDF patients, on a frequent, specific
 18 schedule, for the adverse effects of TDF-associated bone and kidney toxicity. Gilead intentionally
 19 omitted an adequate monitoring warning in order to conceal the true risk of its TDF-based antiviral
 20 products, and to inflate sales by inducing doctors to prescribe, and patients like Plaintiffs to
 21 consume, its TDF Drugs. Gilead could have unilaterally strengthened its U.S. labels before FDA
 22 approval for all TDF Drugs and after FDA approval for Viread, Truvada, Atripla, and Complera
 23 through July 2012.

24 319. By providing inadequate warnings that were contrary to those it gave with respect
 25 to the exact same drugs in the EU, Gilead partially disclosed material facts. Gilead had a duty of
 26 complete disclosure once it began to speak.

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1 320. Plaintiffs and their doctors justifiably relied on Gilead's product labeling and other
2 representations.

3 321. Had Gilead not omitted this information about the safe use of its drugs from the
4 prescriber and patient labeling, doctors would have performed, and patients would have insisted
5 upon, frequent and adequate monitoring for the kidney and bone problems that have injured
6 Plaintiffs. But for Gilead's omissions, Plaintiffs would have consumed the TDF Drugs in a safer
7 way.

8 322. If Plaintiffs had been adequately monitored for kidney and bone problems while
9 taking TDF, they would not have been injured or their injuries would have been less severe.

10 323. Gilead intentionally concealed from Plaintiffs and their doctors the fact that Gilead
11 had already developed the safer TAF mechanism but designed the TDF Drugs to contain TDF
12 instead of the safer TAF design in order to maximize profits on its TDF-based products and extend
13 its ability to profit on its HIV franchise for years to come.

14 324. Gilead also intentionally concealed from Plaintiffs and their doctors that Gilead
15 knew that the tenofovir prodrug dose should be reduced when combined in a fixed dose
16 combination pill with cobicistat, but did not reduce the TDF dose in Stribild as it did with Genvoya.

17 325. By concealing that Gilead was aware of but had withheld the safer designs, Gilead
18 intended to and did induce Plaintiffs' doctors to prescribe, and Plaintiffs to ingest, one or more of
19 the TDF Drugs, thereby causing Plaintiffs' injuries.

20 326. Plaintiffs and their doctors justifiably relied on Gilead's omissions regarding TAF.

21 327. Had Gilead disclosed that it was aware of, but intentionally withheld, the safer TAF
22 mechanism for delivering tenofovir into the body, Plaintiffs would have ingested TDF in a safer
23 manner.

24 328. Plaintiffs' doctors would have ensured that Plaintiffs ingested TDF in a safer
25 manner through increased and/or more careful monitoring for TDF-induced kidney and bone
26 toxicity, or by prescribing TDF without coadministration with cobicistat.

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329. Plaintiffs were injured as a direct and proximate result of Gilead's material omissions.

PRAYER FOR RELIEF

Wherefore, Plaintiffs request that the Court enter an order or judgment against Gilead and in favor of Plaintiff, and grant the following relief:

A. Declare, adjudge, and decree the conduct of Gilead as alleged herein to be unlawful, unfair, and/or deceptive and otherwise in violation of the law;

B. Award Plaintiffs actual, compensatory, and/or statutory damages in an amount to be proven at trial;

C. Award Plaintiffs punitive and exemplary damages as permitted by law and the statutes cited herein in an amount to be proven at trial;

D. Award Plaintiffs restitution and restitutionary disgorgement to restore ill-gotten gains received by Gilead as a result of the unfair, wrongful, and deceptive conduct alleged herein;

E. Award Plaintiffs the costs of bringing this suit, including reasonable attorneys' fees; and

F. Award Plaintiffs such other and further relief as to which Plaintiffs may be entitled in law or equity.

DATED: June 11, 2021

HAGENS BERMAN SOBOL SHAPIRO LLP
Attorneys for Plaintiffs

By: l
Steve W. Berman, WSBA #12536

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IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON IN AND FOR THE COUNTY OF
SPOKANE

VAUGHN L BRESHEARE AND JOHN DOE 27

No

Plaintiff(s),

Vs.

AFFIDAVIT PURSUANT TO
GR 17(a) (2)

GILEAD SCIENCES INC.,

Defendant(s).

G SAUERLAND, declares and states:

1. I am employed with EASTERN WASHINGTON ATTORNEY SERVICES INC., and submit this declaration pursuant to GR 17 (a) (2) as recipient of "COMPLAINT FOR DAMAGES" received via email at gsauerland@comcast.net for filing with the Court in this matter.

2. I have examined the document. The "COMPLAINT FOR DAMAGES" consists of EIGHTY ONE (81) page(s), including the signature page, and this Declaration page. It is completed and legible.

I declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

DATED this 6/11/21

G SAUERLAND
6/11/21

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FILED

CN: 2120158632

JUN 11 2021

SN: 2

PC: 1

TIMOTHY W. FITZGERALD
SPOKANE COUNTY CLERK

(Copy Receipt)

Clerk's Date Stamp

 <p>SUPERIOR COURT OF WASHINGTON COUNTY OF SPOKANE</p>	<p>JUDGE TIMOTHY B. FENNESSY 94</p>
<p>BRESHEARE, VAUGHN .L</p>	<p>CASE NO. 21-2-01586-32</p>
<p>Plaintiff(s)/Petitioner(s), vs. GILEAD SCIENCES, INC.</p>	<p>CASE ASSIGNMENT NOTICE AND ORDER (NTAS)</p>
<p>Defendant(s)/Respondent(s).</p>	<p>CASE STATUS CONFERENCE DATE: SEPTEMBER 10, 2021 AT 8:30 AM</p>

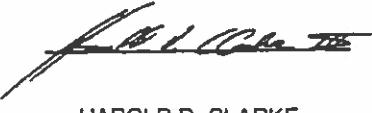
ORDER

YOU ARE HEREBY NOTIFIED that this case is preassigned for all further proceedings to the judge noted above. You are required to attend a Case Status Conference before your assigned judge on the date also noted above. The Joint Case Status Report must be completed and brought to the Status Conference. A Case Schedule Order, with the trial date, will be issued at the Status Conference.

Under the individual calendar system, the court will operate on a four-day trial week. Trials will commence on Monday, Tuesday, Wednesday or Thursday. Motion Calendars are held on Friday. All motions, other than ex parte motions, must be scheduled with the assigned judge. Counsel must contact the assigned court to schedule motions and working copies of all motion pleadings must be provided to the assigned court at the time of filing with the Clerk of Court. Pursuant to LCR 40 (b) (10), motions must be confirmed no later than 12:00 noon two days before the hearing by notifying the judicial assistant for the assigned judge.

Please contact the assigned court to schedule matters regarding this case. You may contact the assigned court by phone, court department e-mail or through the Spokane County Superior Court web page at <http://www.spokanecounty.org/1140/Superior-Court>

DATED: 06/11/2021



HAROLD D. CLARKE
PRESIDING JUDGE

NOTICE: The plaintiff shall serve a copy of the Case Assignment Notice on the defendant(s).

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FILED

JUN 11 2021

CN: 2120158632

SN: 3

PC: 2

TIMOTHY W. FITZGERALD
SPOKANE COUNTY CLERK

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
IN AND FOR SPOKANE COUNTY

VAUGHN L. BRESHEARE and
JOHN DOE 27,

Plaintiffs,

v.

GILEAD SCIENCES, INC.,

Defendant.

21201586-32
Case No.

JURY DEMAND

TO THE CLERK OF THE COURT AND TO DEFENDANT:

Plaintiffs elect to have this case tried by a jury of six members and herewith deposit with the clerk of the court the jury fee required by law.

DATED: June 11, 2021

HAGENS BERMAN SOBOL SHAPIRO LLP
Attorneys for Plaintiffs

By: 
Steve W. Berman, WSBA #12536

JURY DEMAND - 1

010759-11/1560947 V1

WORKING COPY

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON IN AND FOR THE COUNTY OF
SPOKANE

VAUGHN L BRESHEARE AND JOHN DOE 27

No

Plaintiff(s),

Vs.

AFFIDAVIT PURSUANT TO
GR 17(a) (2)

GILEAD SCIENCES INC.,

Defendant(s).

G SAUERLAND, declares and states:

1. I am employed with EASTERN WASHINGTON ATTORNEY SERVICES INC.,, and submit this declaration pursuant to GR 17 (a) (2) as recipient of "JURY DEMAND" received via email at gsauerland@comcast.net for filing with the Court in this matter.

2. I have examined the document. The "JURY DEMAND" consists of TWO (02) page(s), including the signature page, and this Declaration page. It is completed and legible.

I declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

DATED this 6/11/21

G SAUERLAND
6/11/21

WORKING COPY

Judge Timothy B. Fennessy

CN: 2120158632

FILED

SN: 4

JUL 06 2021

IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
IN AND FOR SPOKANE COUNTY

VAUGHN L. BRESHEARE AND JOHN)
DOE 27, individually,) Case No.: 21201586-32
)
Plaintiffs,)
)
v.)
)
GILEAD SCIENCES, INC.,)
)
Defendant.)
)
)
)
)
)

**NOTICE OF APPEARANCE ON BEHALF OF DEFENDANT
GILEAD SCIENCES, INC.**

PLEASE TAKE NOTICE that Hunter Ahern and Bart Eppenauer, of the firm Shook, Hardy & Bacon L.L.P., without waiving any objections to the sufficiency of service of process or jurisdiction of this Court, hereby enter their appearance for Defendant GILEAD SCIENCES, INC. in the above-captioned matter. All further papers and proceedings in this lawsuit should be served upon the undersigned via the Court's electronic filing system or at the address stated below

WORKING COPY

1 Respectfully submitted,
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5 **SHOOK, HARDY & BACON L.L.P.**
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10 Dated: July 6, 2021
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By: /s/ Hunter K. Ahern
1 Hunter K. Ahern
2 WA Bar No.: 54489
3 David Bartley Eppenauer
4 WA Bar No.: 29807
5 701 Fifth Avenue, Suite 6800
6 Seattle, WA 98104-7066
7 Telephone: (206) 344-7600
8 Facsimile: (206) 344-3113
9 E-mail: hahern@shb.com
beppenauer@shb.com

10 *Attorneys for Defendant Gilead Sciences, Inc.*
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12
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CERTIFICATE OF SERVICE

I certify, under penalty of perjury under the laws of the State of Washington, that on July 6, 2021, a true copy of the foregoing document was served on the persons listed below in the manner shown, as follows:

Via E-Service & Via Email

Steve W. Berman
HAGENS BERMAN SOBOL SHAPIRO LLP
1301 Second Avenue, Suite 2000
Seattle, WA 98101
Telephone: (206) 623-7292
Facsimile: (206) 623-0594

Attorneys for Plaintiffs

s/ Hunter K. Ahern

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beppenauer@shb.com

Attorneys for Defendant Gilead Sciences, Inc.

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1 Judge Timothy B. Fennessy

2 CN: 2120158632

3 SN: 5 FILED

4 PC: 3

5 JUL 06 2021

6 Timothy W. Fitzgerald
7 SPOKANE COUNTY CLERK

8 IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON
9 IN AND FOR SPOKANE COUNTY

10 VAUGHN L. BRESHEARE AND JOHN)
11 DOE 27, individually,) Case No.: 21201586-32
12 Plaintiffs,)
13 v.) STIPULATION AND ORDER TO
14 GILEAD SCIENCES, INC.,) EXTEND TIME TO ANSWER
15 Defendant.) COMPLAINT
16) [Clerk's Action Required]
17)
18)
19) PLEASE TAKE NOTICE Plaintiffs Vaugh L. Bresheare and John Doe 27 ("Plaintiffs")
20) and Defendant Gilead Sciences, Inc. ("Gilead"), by and through their respective counsel of
21) record, hereby stipulate:
22) Gilead's deadline to answer or otherwise to respond to the Complaint in the above-
23) captioned action is extended for a total of 45 days to August 20, 2021.
24) Date: July 6, 2021
25)
26)
27)

WORKING COPY

1 By: /s/ Steve W. Berman

2 Steve W. Berman
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8 *Attorneys for Plaintiffs*

9 By: /s/ Hunter Ahern

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19 E-mail: beppenauer@shb.com

20 *Attorneys for Defendant Gilead Sciences, Inc.*

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WORKING COPY

ORDER

IT IS SO ORDERED.

Dated this day of July, 2021.

Judge Timothy B. Fennessy

By: /s/ Hunter Ahern

Hunter K. Ahern
WA Bar No.: 54489